12' x 12' Garden Shed Playhouse Chicken Coop

Instructions And Plans

By John Davidson

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Kindle Edition

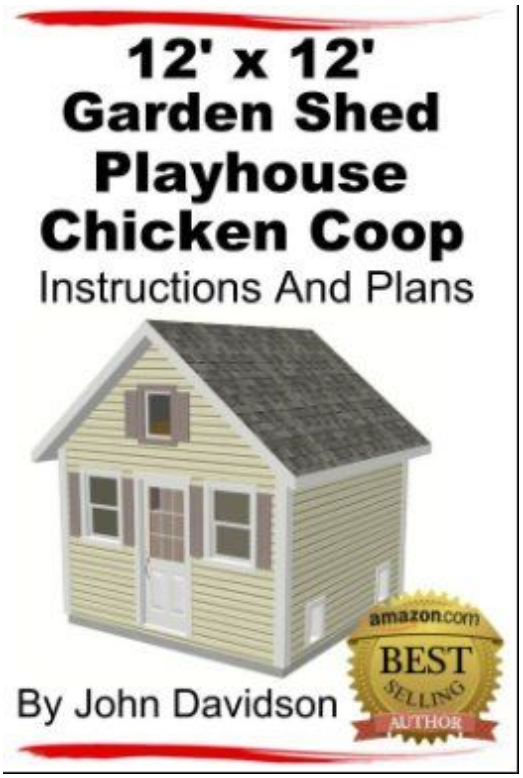
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Table of Contents

About the Author

John Davidson

John has been drawing homes barns and garages since 1984. He has drawn over 500 homes and over 1000 garages and barns. John started a family drafting business called Specialized Design Systems (SDSPlans).

On the website http://housecabin.com there are over 100 full house and cabin plans available for easy download for as low as $1 each. John has been selling affordable digital plans online for over 10 years.

Other plans have also been part of the development of this online business. Over 100 websites market these plans on the Internet. Low cost plans that you can download instantly.

Check out more of the plans at the main company website http://sdsplans.com

Specialized Designs Systems LLC, Mendon, Utah

DISCLAIMER

READ BEFORE YOU BEGIN! THESE PLANS ARE INTENDED AS A GUIDE ONLY! READ THESE INSTRUCTIONS COMPLETELY THROUGH ONCE AND UNDERSTAND WHAT IS REQUIRED.

We will not be held responsible for any accidents or injuries anyone may sustain. Builder assumes all risks associated with construction work!

We assume some builder competency in the use of tools, safety and equipment.

Work safely and wear proper safety equipment such as gloves, ear protection and eye protection.

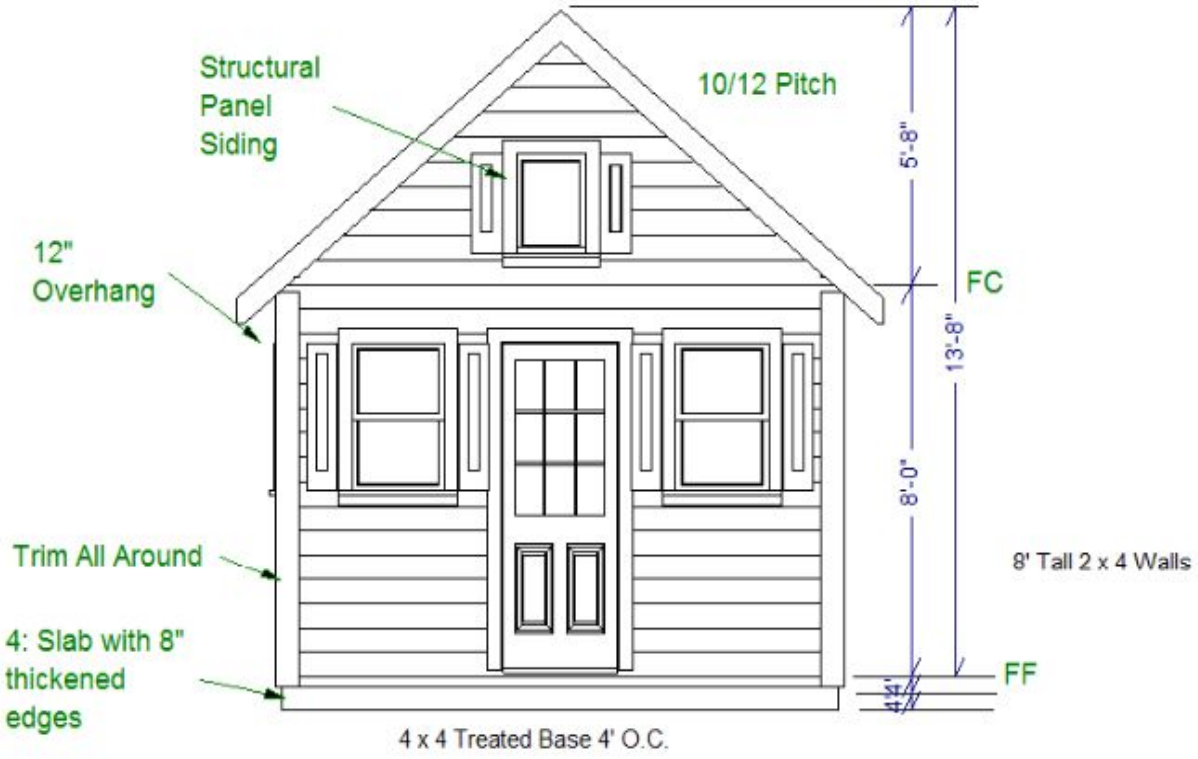
To the best of my knowledge these plans are drawn to comply with owner's and/ or builder's specifications and any changes made on them after prints are made will be done at the owner's and / or builder's expense and responsibility. The contractor shall verify all dimensions and enclosed drawing. SDSCAD is not liable for errors once construction has begun. While every effort has been made in the preparation of this plan to avoid mistakes, the maker cannot guarantee against human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter. All calculations and member sizing should be verified for your building by a certified building official.

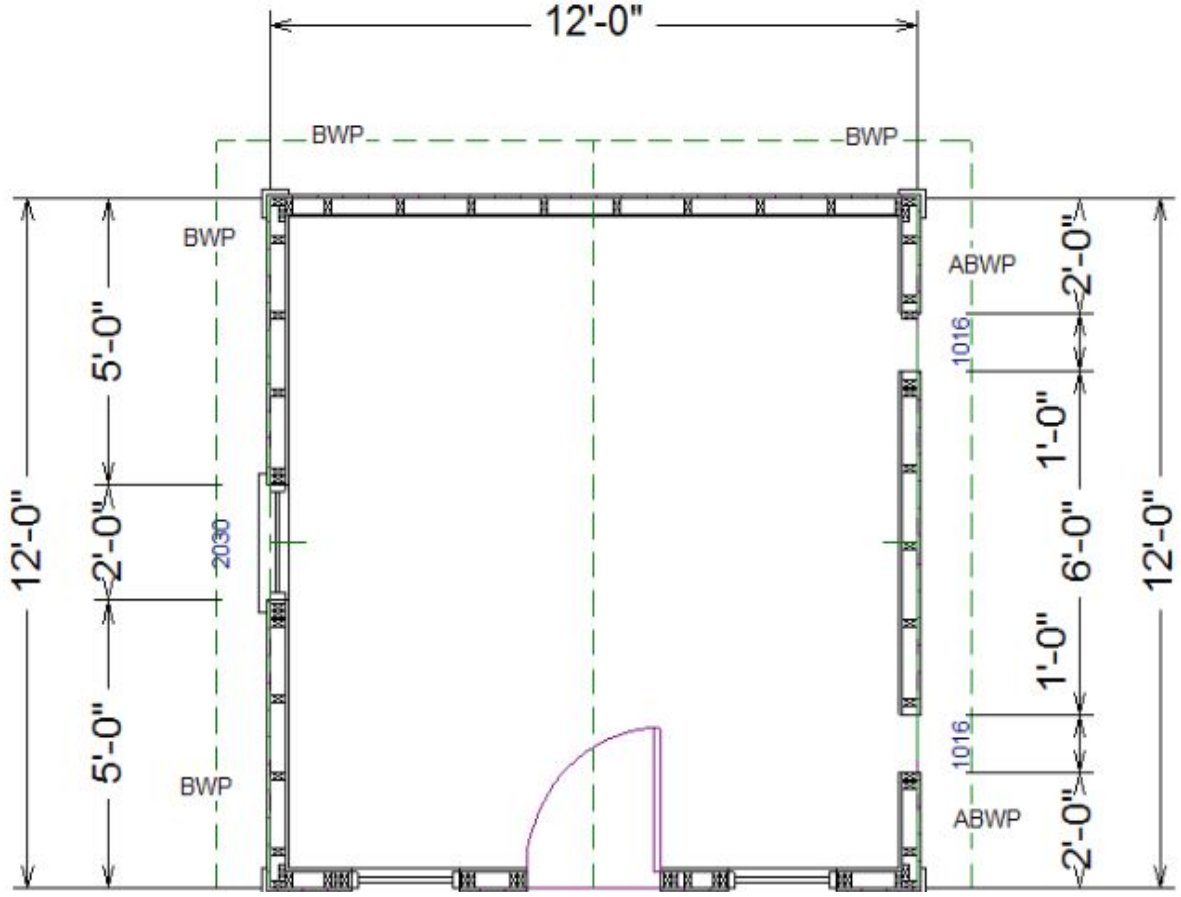
Please Note

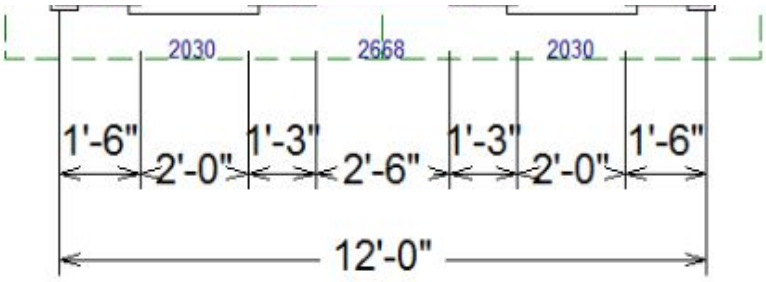
Please note, this book is not a step by step book for construction but the actual plans that can be used to apply for permits. Plans in the kindle book are low resolution because of limits to the kindle format but links to download and print high resolution to scale blueprints in PDF format are available in the book. Engineering may be required on plans to be built in different locations.

Bonus 12’ x 12’ Chicken Coop Plans

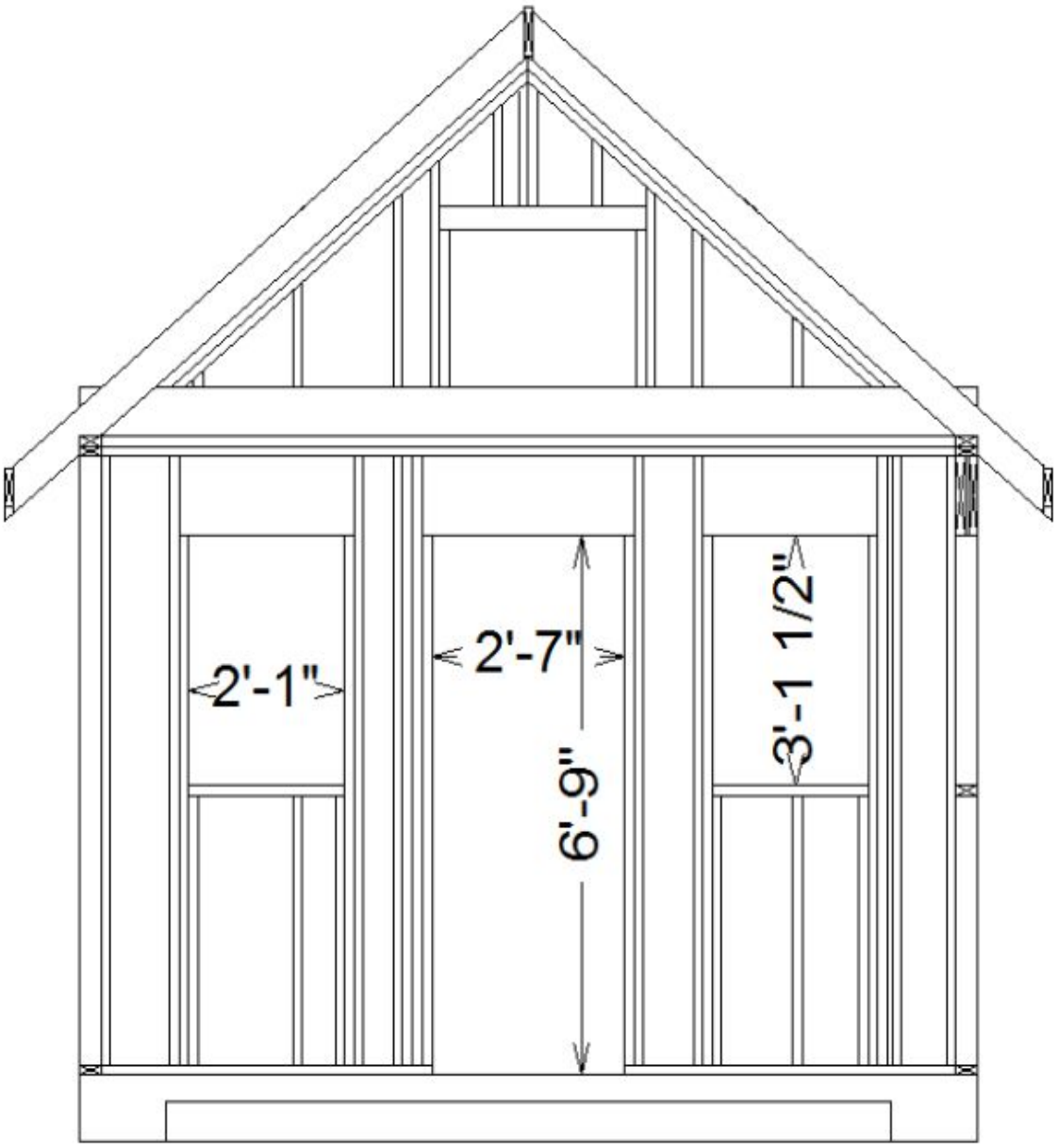
This is the little chicken coop that inspired the next little coop design

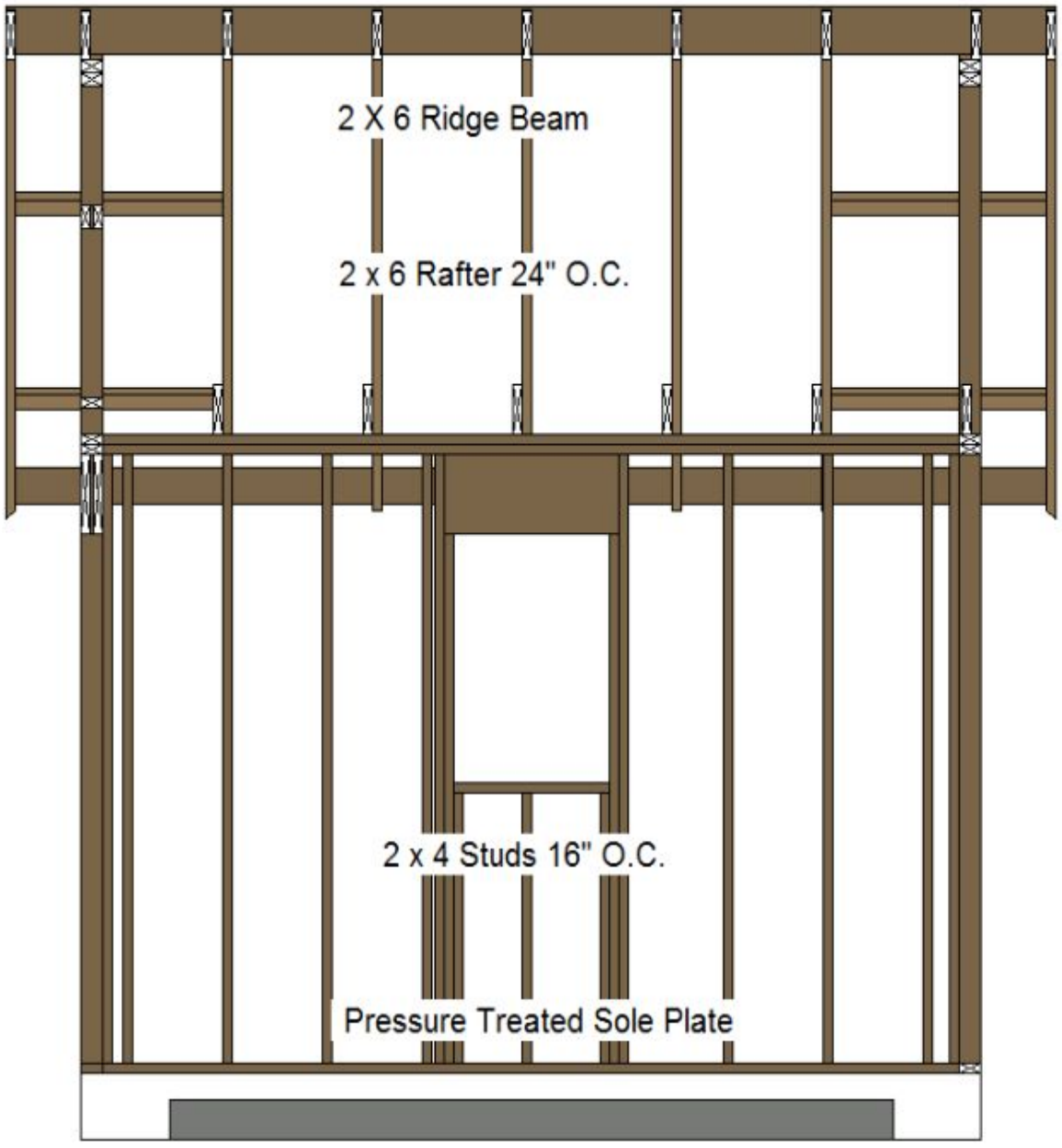

Structural
Panel
Siding
10/12 Pitch
12"
Overhang
5'-8"
FC
13'-8"
8'-0"
Trim All Around
8' Tall 2 x 4 Walls
4: Slab with 8"
thickened
edges
FF
4 x 4 Treated Base 4' O.C.


12'-0"
BWP
BWP
BWP
ABWP
2'-0"
1016
1'-0"
6'-0"
1'-0"
1016
2'-0"
ABWP
12'-0"
5'-0"
2'-0"
2030
5'-0"
BWP
12'-0"


2030
2668
2030
1'-6"
2'-0"
1'-3"
2'-6"
1'-3"
2'-0"
1'-6"
12'-0"

General								
GN1		1	96 high wall	Siding-4	47	0	ft	
GN2		1		heated ceiling area	144.00	0.00	sq ft	
GN3		1		heated floor area	144.00	0.00	sq ft	
GN4		1		heated wall area	338.00	0.00	sq ft	
GN5		1		heated glass area	18.00	0.00	sq ft	
GN6		1		heated door area	20.00	0.00	sq ft	
GN7		2	67 1/4 high wall	Siding-4	22	0	ft	
								Subtotal:
Subfloor								
SF1		1	8'x4'x3/4"	Sheet Plywood	4	0		
SF2		1	2x8"-12'	ceiling joists - lumber	8	0		
								Subtotal:
Framing								
F1		1	2x4-16ft+	fir plate	147	0	ft	
F2		1	2x4"-91 1/2"	fir stud	47	0		
F3		1	2x4-16ft+	fir stud stock	89	0	ft	
F4		1	2x4"-70 1/2"	fir stud	2	0		
F5		1	2x4-16ft+	header - lumber	5	0	ft	
F6		1	2x12-16ft+	header - lumber	20	0	ft	
F7		2	2x4-16ft+	fir plate	60	0	ft	
F8		2	2x4-16ft+	fir stud stock	56	0	ft	
F9		2	2x4-16ft+	header - lumber	5	0	ft	
								Subtotal:
Siding								
S1		1	7" wide	Siding Wood Cream	693	0	ft	
S2		1		house wrap	384.00	0.00	sq ft	
S3		2	7" wide	Siding Wood Cream	103	0	ft	
								Subtotal:
Ext Trim								
EX1		0	4" thick	- concrete grey	2.71	0.00	cu yd	
EX2		1	1x5-12"	door threshold	2	0		
EX3		1	1x4-16ft+	ext. door casing - color white	27	0	ft	
EX4		1	5 in	ext. door jamb - color white	27	0	ft	
EX5		1	1x4-16ft+	exterior sill - color white	8	0	ft	
EX6		1	1x4-16ft+	ext. window casing - color white	27	0	ft	
EX7		1	8x36 in	shutter	6	0		
EX8		1	1x5-30"	door threshold	1	0		
EX9		1	1x8 in (2)	corner board - color white	32	0	ft	
EX10		2	8x24 in	shutter	2	0		
EX11		2	1x4-16ft+	exterior sill	2	0	ft	
EX12		2	1x4-16ft+	ext. window casing	7	0	ft	
								Subtotal:
Roofing								
R1		1	2x8"-14'	ridge board - lumber	1	0		
R2		1	2x8"-10'	rafters - lumber	18	0		
R3		1	2x8"-14'	rafters - lumber	2	0		
R4		1	2x4"-16'+	rafters - lumber	22	0	ft	
R5		1		ridge vent	14	0	ft	
R6		1		ridge cap	14	0	ft	
R7		1		Roofing Dimensional Comp.	255.00	0.00	sq ft	
R8		1	4x8' sheets	roof sheathing	8	0		
R9		1	2x6"	gable fascia	36	0	ft	
R10		1	2x6"	eave fascia	28	0	ft	
R11		1		metal drip edge	64	0	ft	
								Subtotal:
Insulation								
IN1		1	12x24x48" batts	ceiling insulation	18	0		
IN2		1	12x16x48" batts	floor insulation	27	0		
IN3		1	4x16x93" batts	wall insulation	31	0		
								Subtotal:
Flooring								
FL1		1	2 1/4" wide	Flooring Oak-Golden	686	0	ft	
Wall Brd								
WB1		1	4'x8'x1/2"	Sheet Sheetrock	12	0		
WB2		1		Color Bone White	128.00	0.00	sq ft	
WB3		1	4'x8'x3/4"	Sheet Sheetrock	4	0		
WB4		2	4'x8'x1/2"	Sheet Sheetrock	2	0		
								Subtotal:
Windows								
W1		1	24x36	single hung	3	0		
W2		2	18x24	fixed glass	1	0		
								Subtotal:
Doors								
D1		1		handle: Lever (decorative)	1	0		
D2		1		handle: Exterior Handle (ext.)	1	0		
D3		1		lock: Dead Bolt (interior)	1	0		
D4		1		lock: Dead Bolt (exterior)	1	0		
D5		1		hinge: hidden	3	0		
D6		1	30x80x1 3/4R	ext. 3068 19	1	0		
								Subtotal:
Int Trim								
T1		1	1x4-16ft+	interior casing	56	0	ft	
T2		1	1x4-16ft+	window apron	8	0	ft	
T3		1	1x4-16ft+	sill	8	0	ft	
T4		1	1x6-16ft+	base molding	46	0	ft	
T5		2	1x4-16ft+	window apron	2	0	ft	
T6		2	1x4-16ft+	sill	2	0	ft	
T7		2	1x4-16ft+	interior casing	7	0	ft	
								Subtotal:
								Total:


2'-1"
2'-7"
6'-9"
3'-1 1/2"


2 X 6 Ridge Beam
2 x 6 Rafter 24" O.C.
2 x 4 Studs 16" O.C.
Pressure Treated Sole Plate

Http://TheGardenShed.net
Http://Build-Chicken-Coop.com

BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS. SHED TO BE BUILT AS PER LOCAL CODE REQUIREMENTS

To the best of my knowledge these plans are drawn to comply with owner's and/or builder's specifications and any changes made on them after prints are made will be done at the owner's and /or builder's expense and responsibility. The contractor shall verify all dimensions and enclosed drawing. SDS/CAD is not liable for errors once construction has begun. While every effort has been made in the preparation of this plan to avoid omissions, this makes no error guarantee against human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible therefore. All calculations and insertion sizing should be verified for your building by a certified building official.

#G489 12 x 12 x 8 Shed - Playhouse - Chicken Coop
By SDS-CAD Specialized Design Systems

SCALE 1/4"=1'

MAIN FLOOR PLAN

SDS-CAD Specialized Design Systems

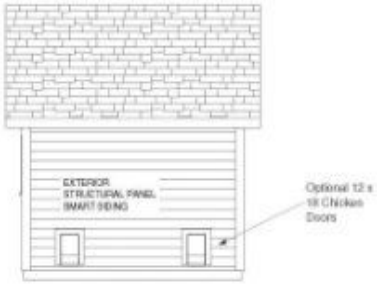
Residential Design

REAR ELEVATION

LEFT ELEVATION

SCALE 1/4"=1'

FRONT ELEVATION



RIGHT ELEVATION

Concrete
1. All slabs are to be min 6" concrete over 4" gravel unless otherwise noted on the plans.
2. Concrete to be ACI 301-05. Type II cement, 2500 psi at 28 days. 5" maximum slump.
3. If required reinforcing to be ASTM A615-Bars with Fyx60 ksi lamp 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on Fc 1500 psi, Fc 2500 psi for quality only.
5. Anchor bolts shall be A-307 embedded 7" minimum into concrete or masonry grout.

PICTORIAL VIEW

FLOOR AND BASE PLAN

SCALE: 1/4"=1'

Residential Design

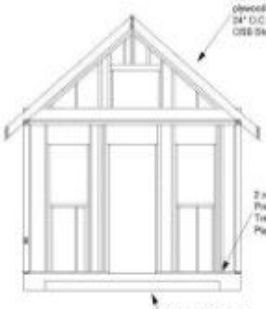
SDS-CAD Specialized Design Systems

Roof Framing 24" O.C. Trusses or 2 x 6 Rafters with 2 x 8 Ridge Beam and 2 x 4 Ceiling Joists

General Framing: (Douglas Fir)

1. Minimum header sizes shall be according to the following table unless otherwise noted. Header sizes (single story construction):
   2'-0" to 4'-0" Span 2-2x6's
   4' + to 6'-0" Span 2-2x8's
   6' + to 8'-0" Span 2-2x10's
   8' + to 10'-0" Span 2-2x12's
   10' + to 12'-0" Span 2-2x12's or as noted on plan
2. Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
   a. Simpson WB 1/36 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
   b. Plywood sheathing of a minimum thickness of 7/16 inch.
3. Fire stopping
   a. Fireblock stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc.
   Fireblocking shall consist of 2" nominal lumber.
   b. Fireline openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with approved noncombustible materials.
4. CDX plywood is not approved where exposed to weather, i.e., roof overhangs.
5. Exterior wall framing to be 2"x6" studs at 16" o.c. Interior wall, framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate.
6. Shear wall to be 7/16" Sheathing, see detail.
7. All stress grade lumber shall comply with WCLA specs and bear approved stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Fb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.

Framing views are for basic reference only



WALL FRAMING SECTIONS

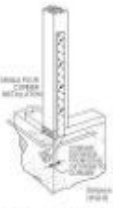
SCALE: 1/4"=1'

Roof Framing

1. Fascia to be 2"x Douglas Fir.
2. For soffit size see details.
3. For spans and dimensions refer to floor plans.
4. Use Simpson H1 hurricane anchors at each truss or rafter to wall connection.
5. Solid blocking required between joists, rafters, and trusses over all bearing walls. Such blocking shall be 1 ½" minimum thickness and full depth of joists, rafters, or trusses.
6. Minimum header sizes shall be according to the header size table unless otherwise noted.
7. Basis of design roof live/snow load of 40 psf, and roof dead load of 15 psf.
8. Plywood roof decking to be Min ½" thick, 24/0, CDX or 5/8 wafer.
9. 4/12 Pitch Engineered Attic Scissor Trusses

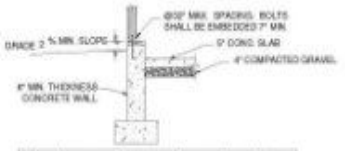
Residential Design

SDS-CAD Specialized Design Systems

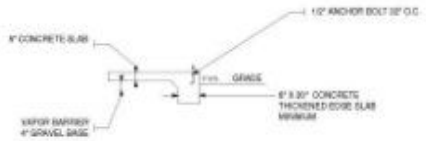


HPAHD straps for all (ABWP) Alternate Braced Wall Panels
See additional detail for all (BWP) Braced Wall Panels

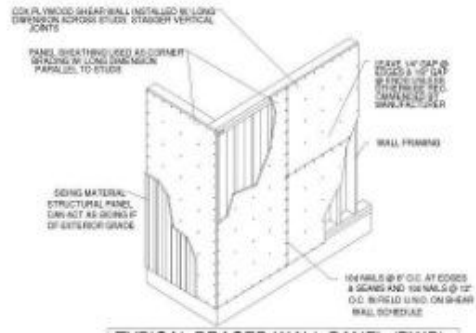
TYPICAL ALTERNATE BRACED WALL PANEL (ABWP)



Footing and concrete wall option



Monolithic slab foundation option



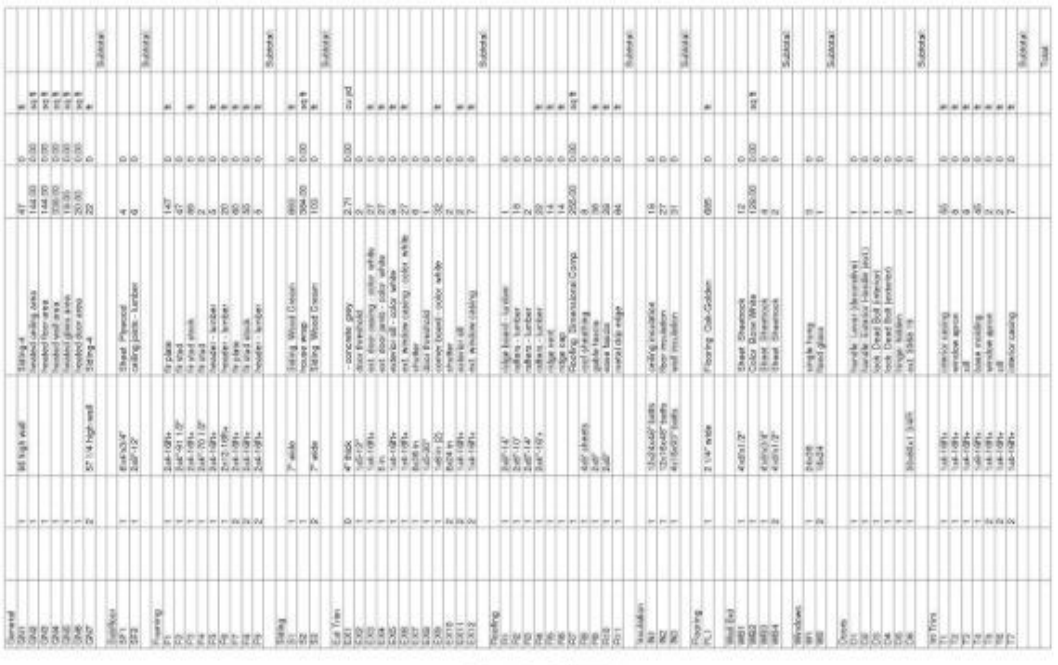
TYPICAL BRACED WALL PANEL (BWP)

NOTE: TYPICAL DETAILS FOR CONSTRUCTION TO MEET BUILDING REQUIREMENTS. BARN TO BE BUILT AS PER LOCAL CODE REQUIREMENTS

Residential Design

SDS-CAD Specialized Design Systems

DETAILS



Computer Generated Materials List
From the 3D CAD Model
Verify Before Construction

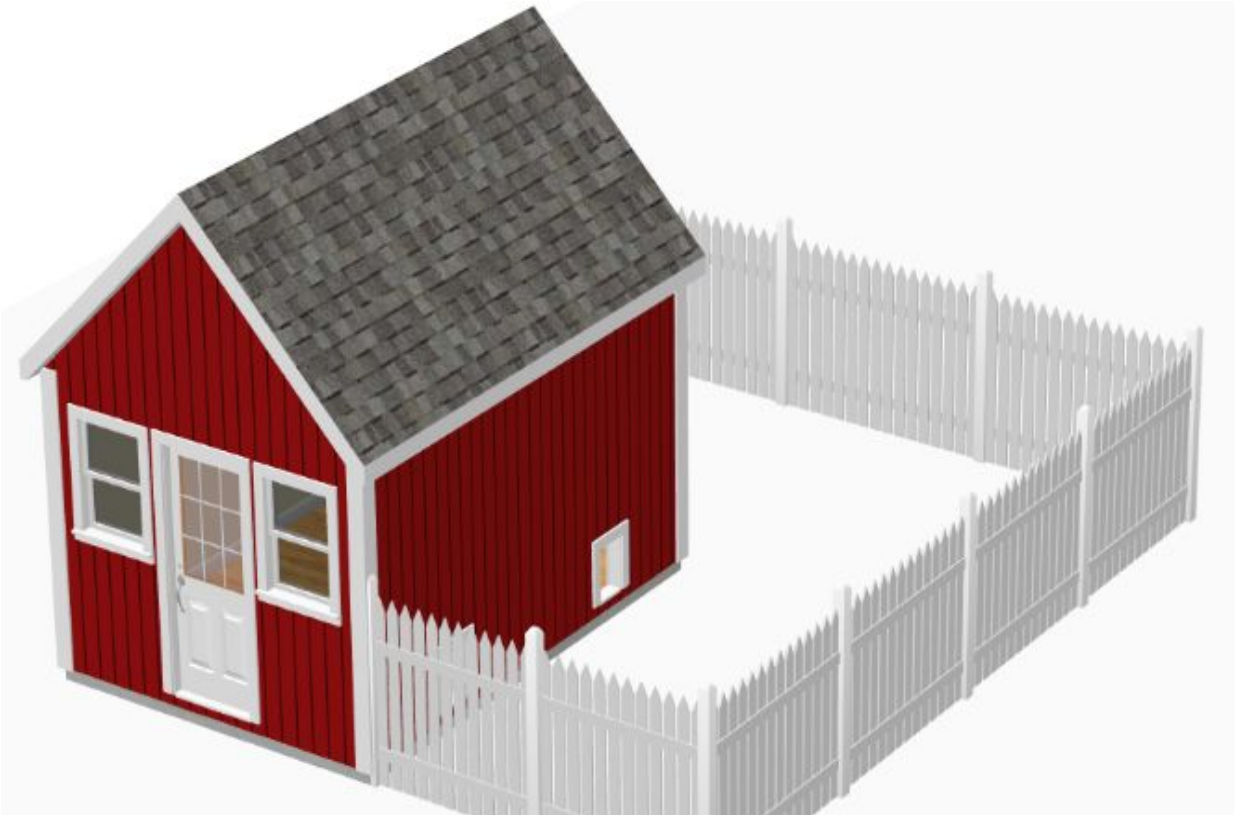
Residential Design

SDS-CAD Specialized Design Systems

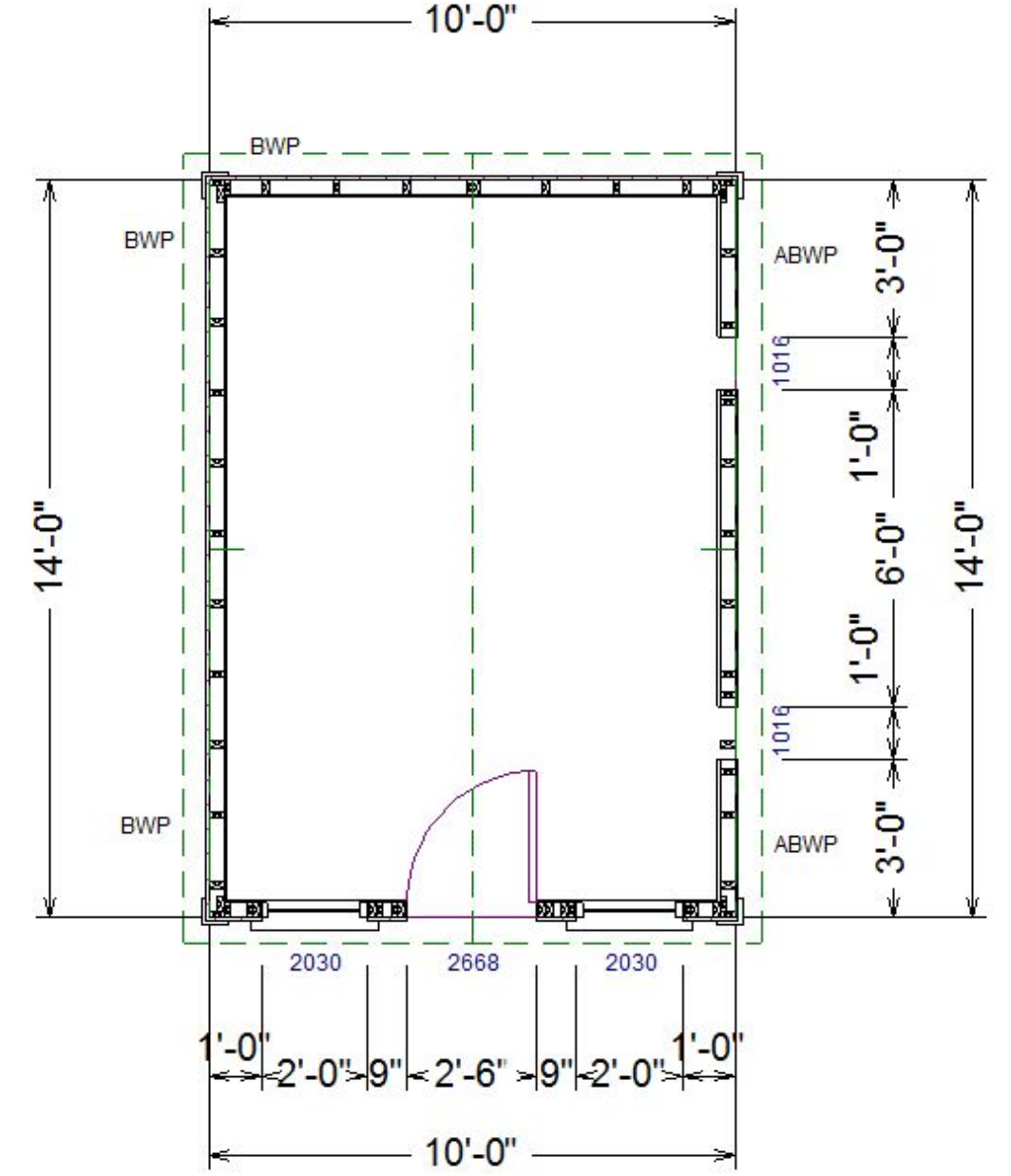
Bonus 10’ x 14’ Shed Plans

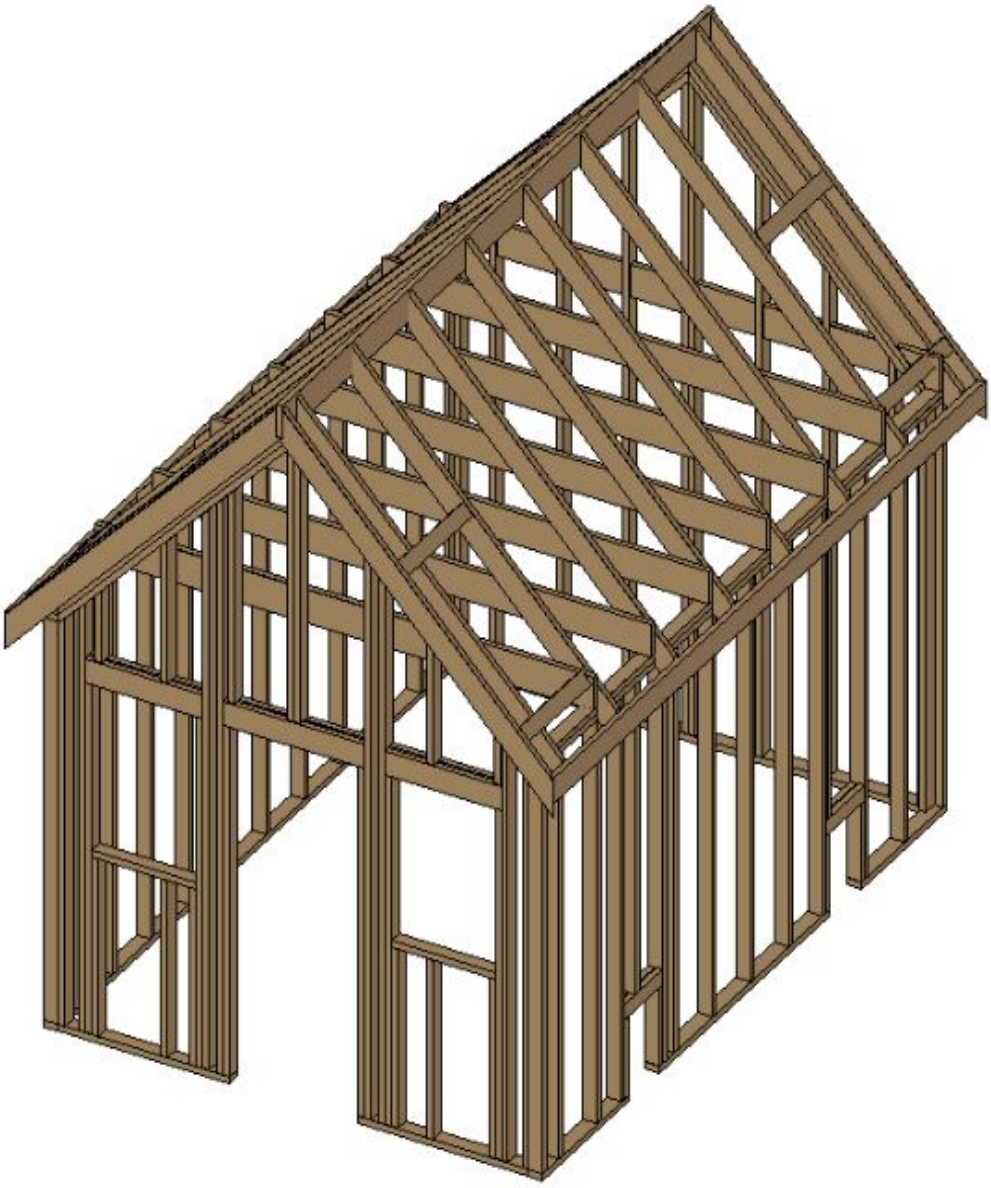
The Design Origination

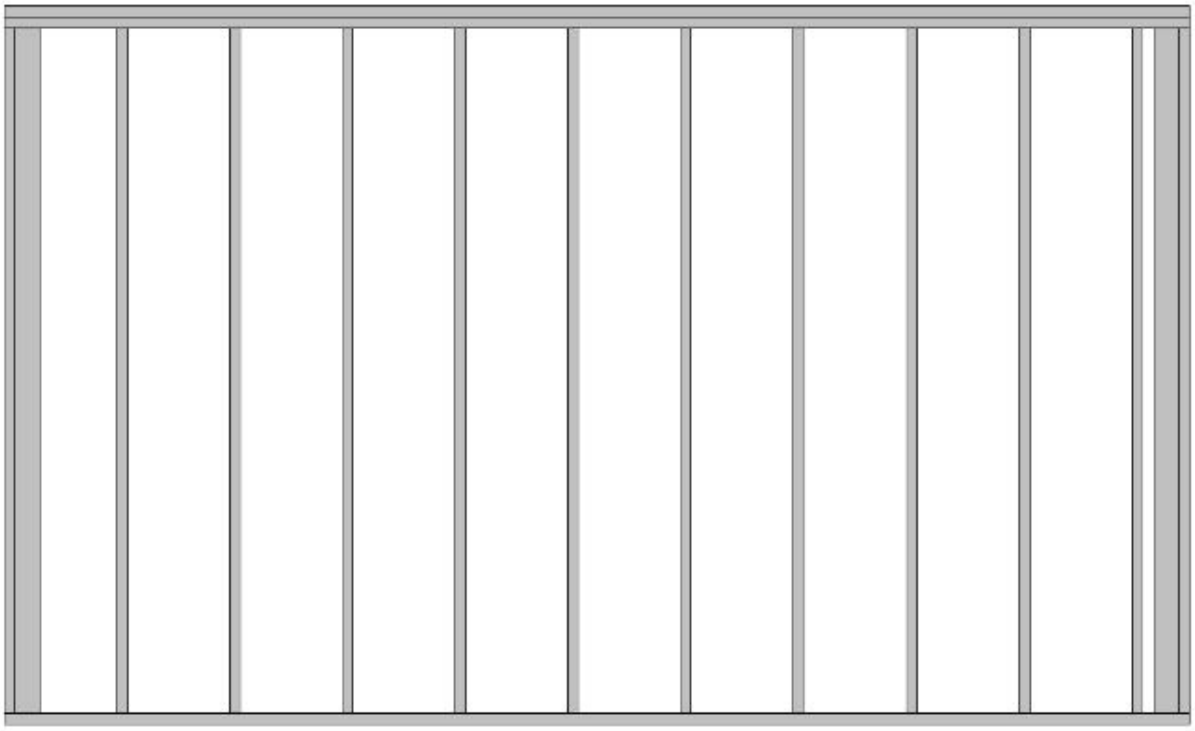
This is a picture of the chicken coop out at my brother in law’s farm that inspired the plans for the 10’ x 14’ that we designed and built. His was a little smaller at 8’ x 12’. We decided on the 10’ x 14’ because we wanted a little more room for chickens and 200 sq ft limit is allowed in our area before permits are required. Check your local building department to find out what is required in your area before starting the process.



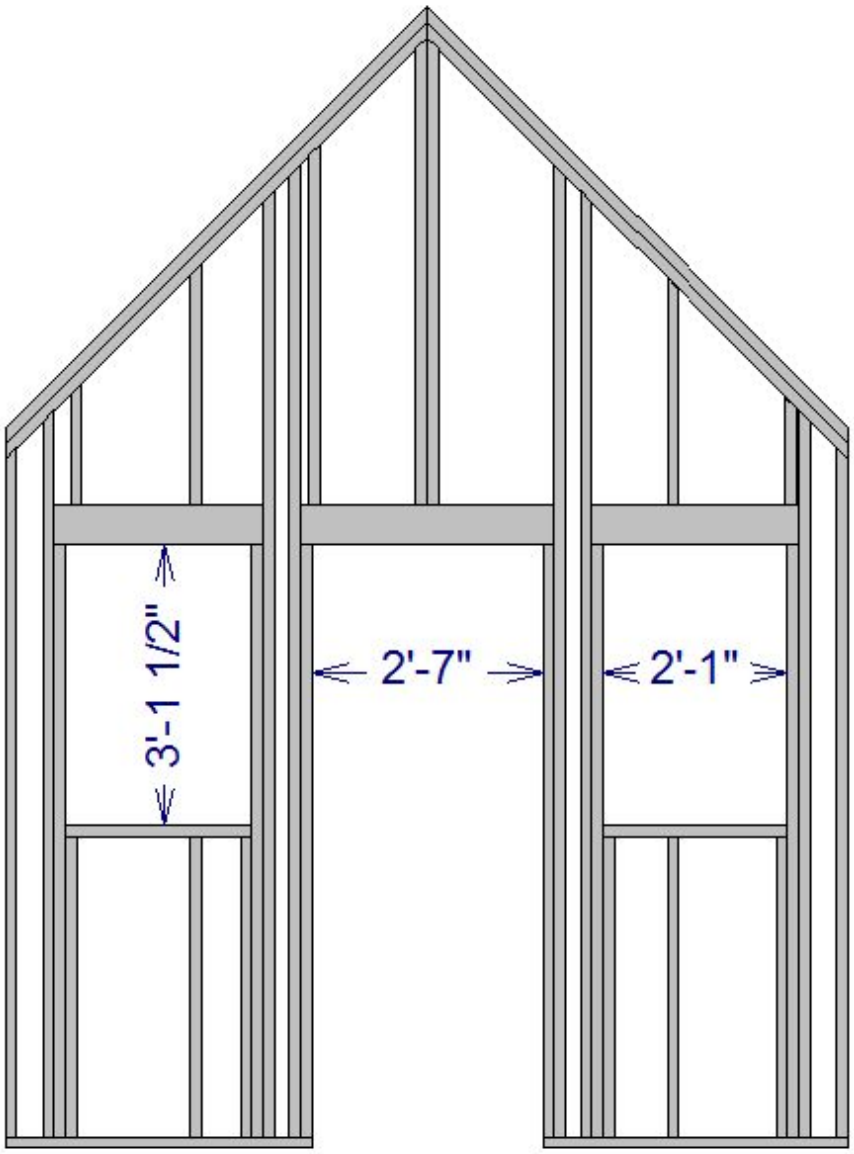
The building can be built on a concrete pad or built on a framed wood floor with skids.

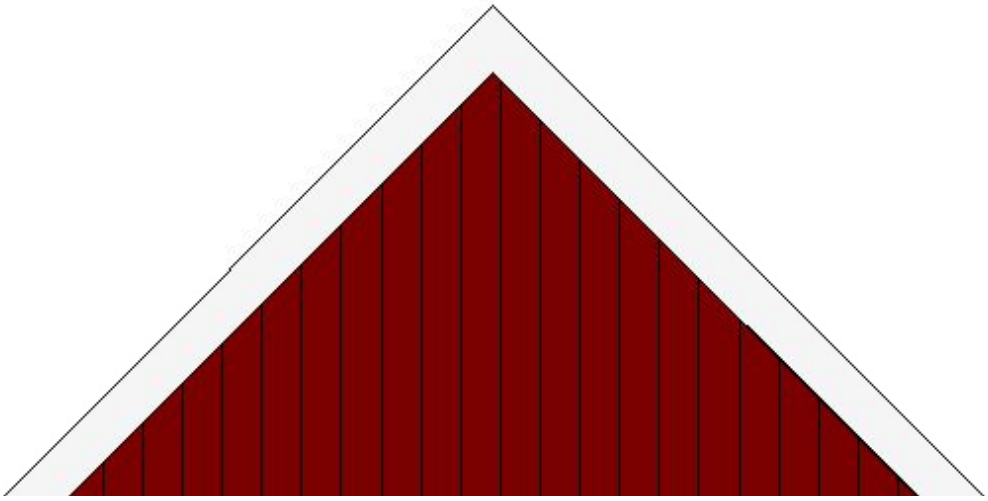

10'-0"
BWP
BWP
ABWP
3'-0"
1016
1'-0"
6'-0"
1'-0"
1016
3'-0"
14'-0"
14'-0"
BWP
ABWP
2030
2668
2030
1'-0"
2'-0"
9"
2'-6"
9"
2'-0"
1'-0"
10'-0"

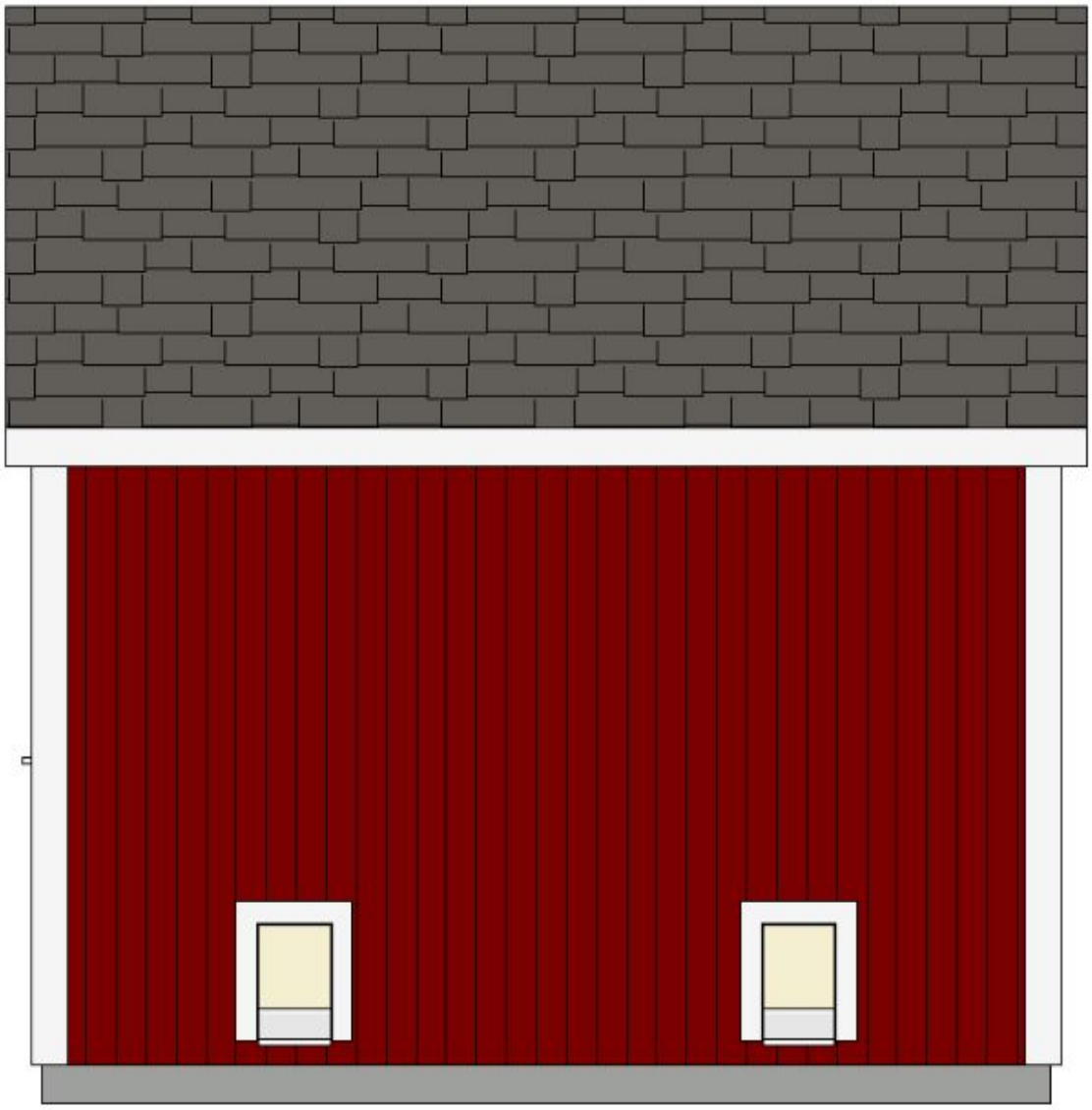




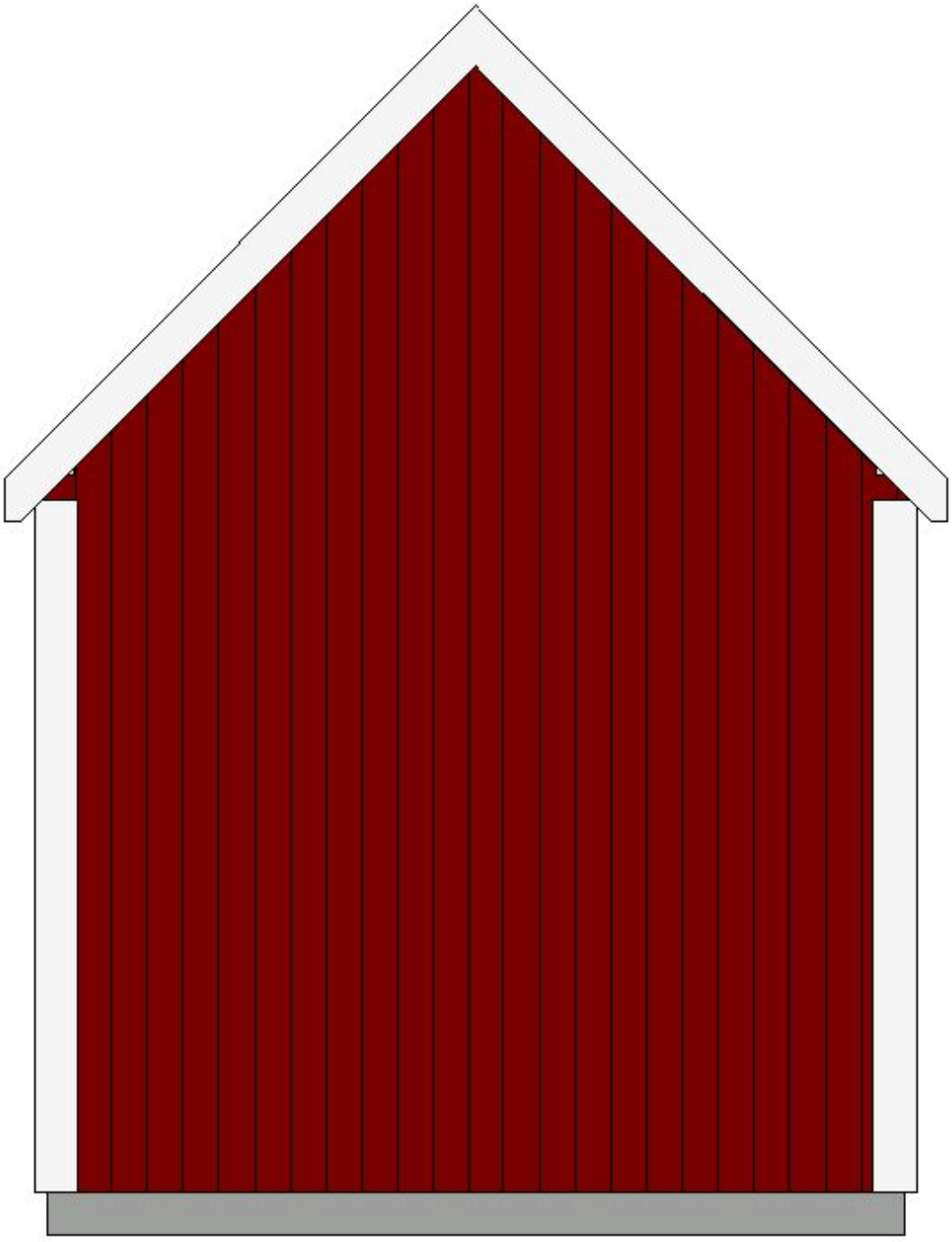
Wall Framing is 2 x 4 studs 8’ long that are 16” O.C.

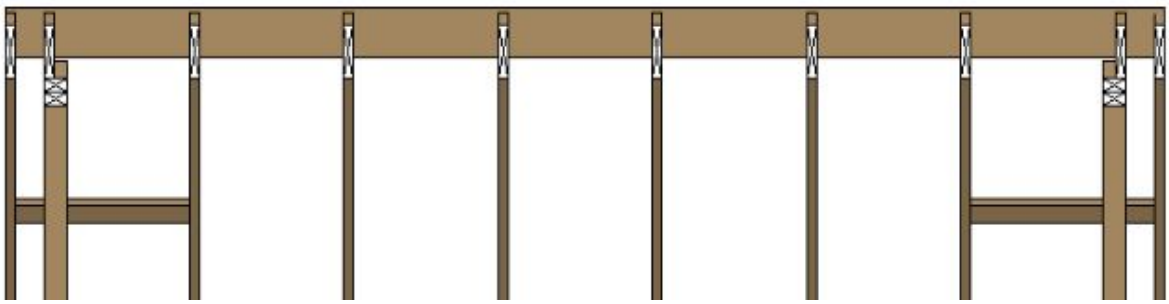

3'-1 1/2"
2'-7"
2'-1"

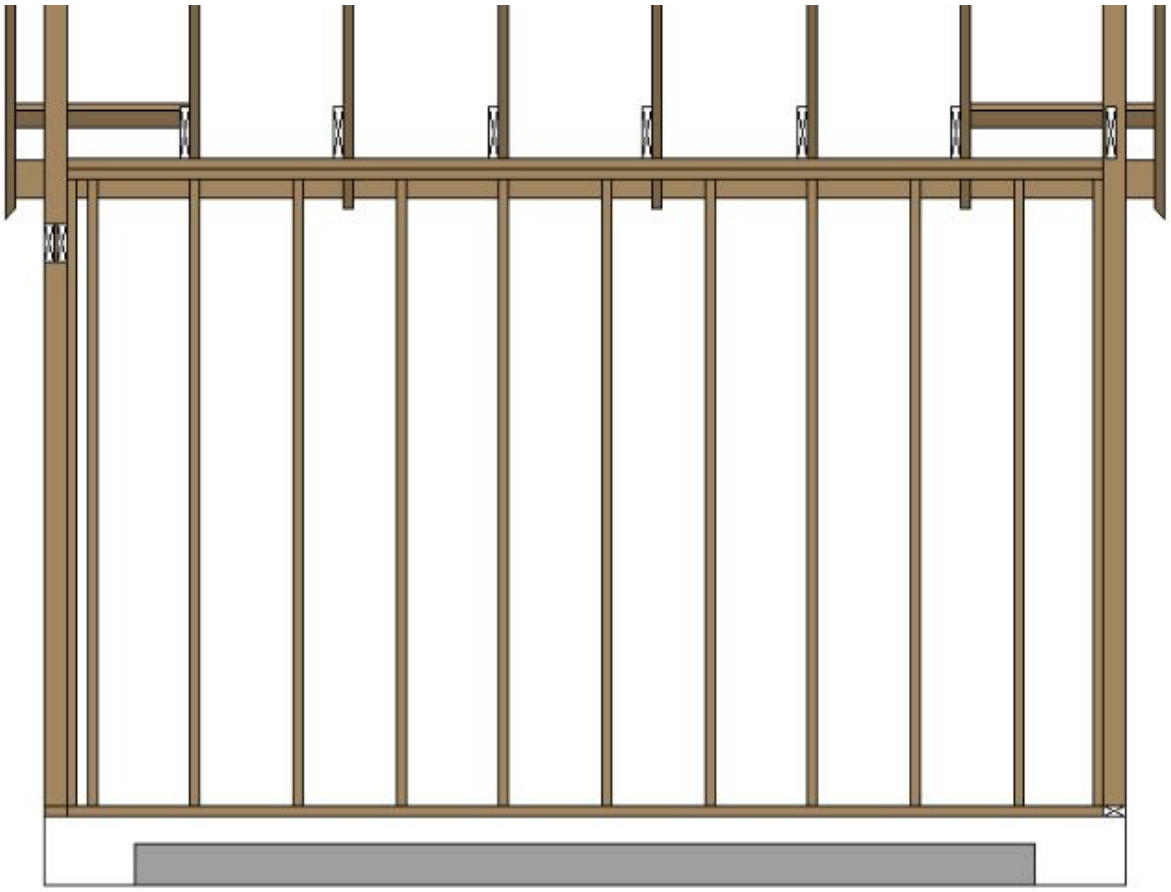




Small doors can be optional if not going to be used as a chicken coop.

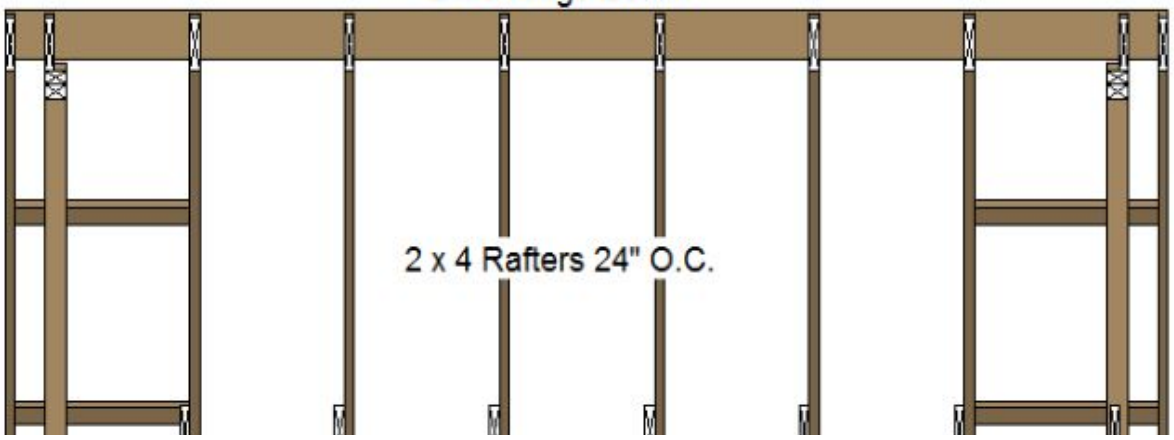


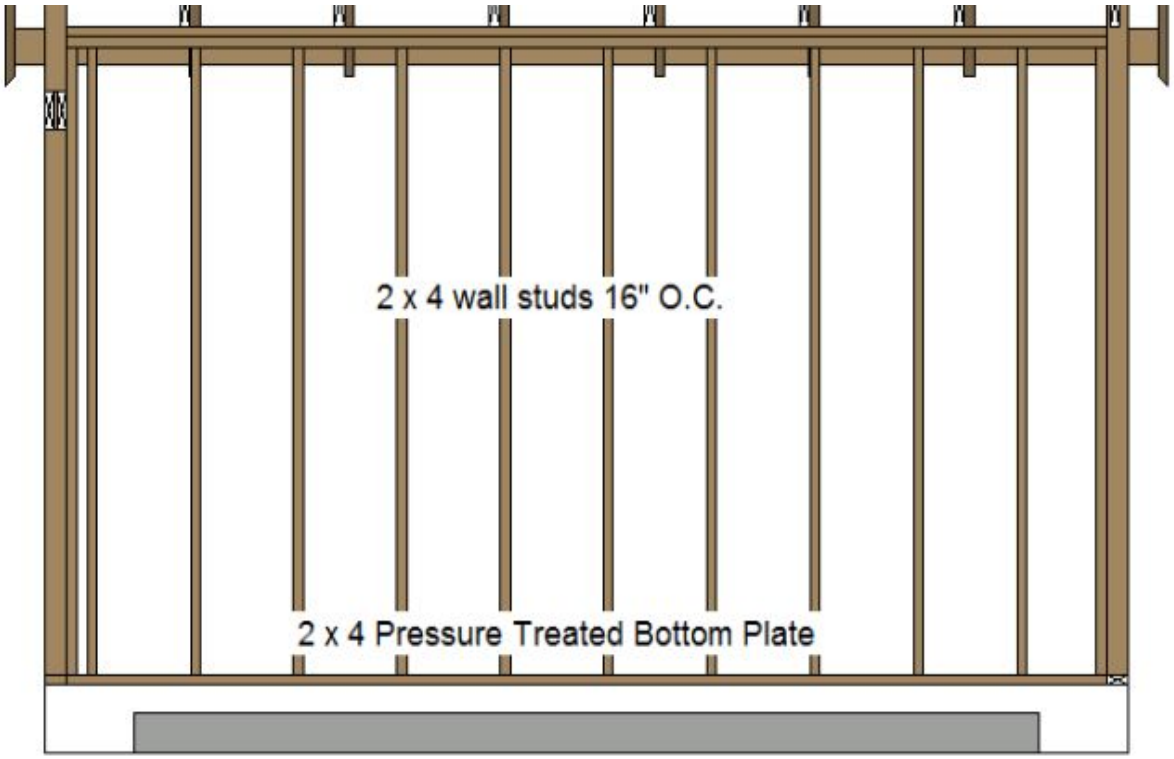


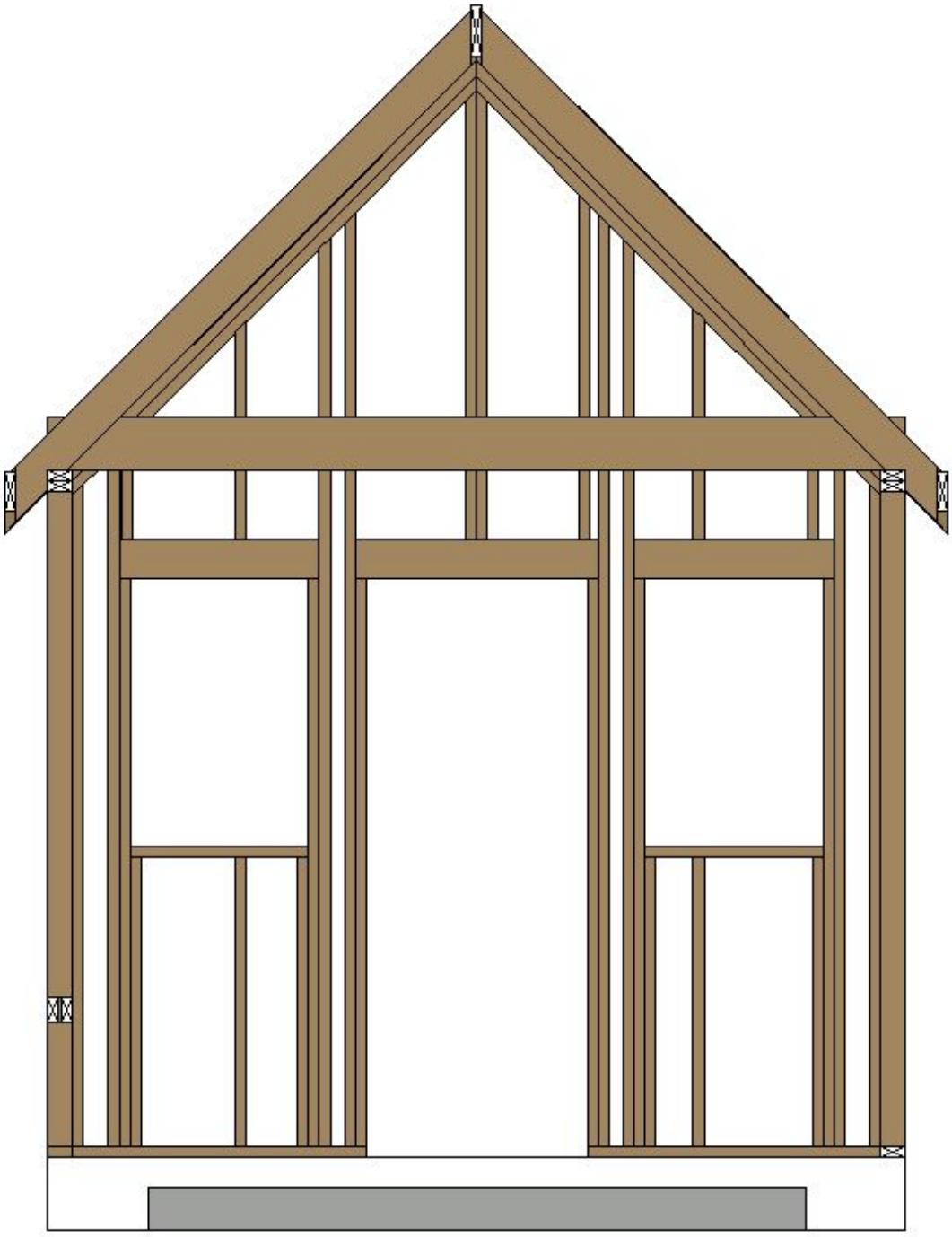


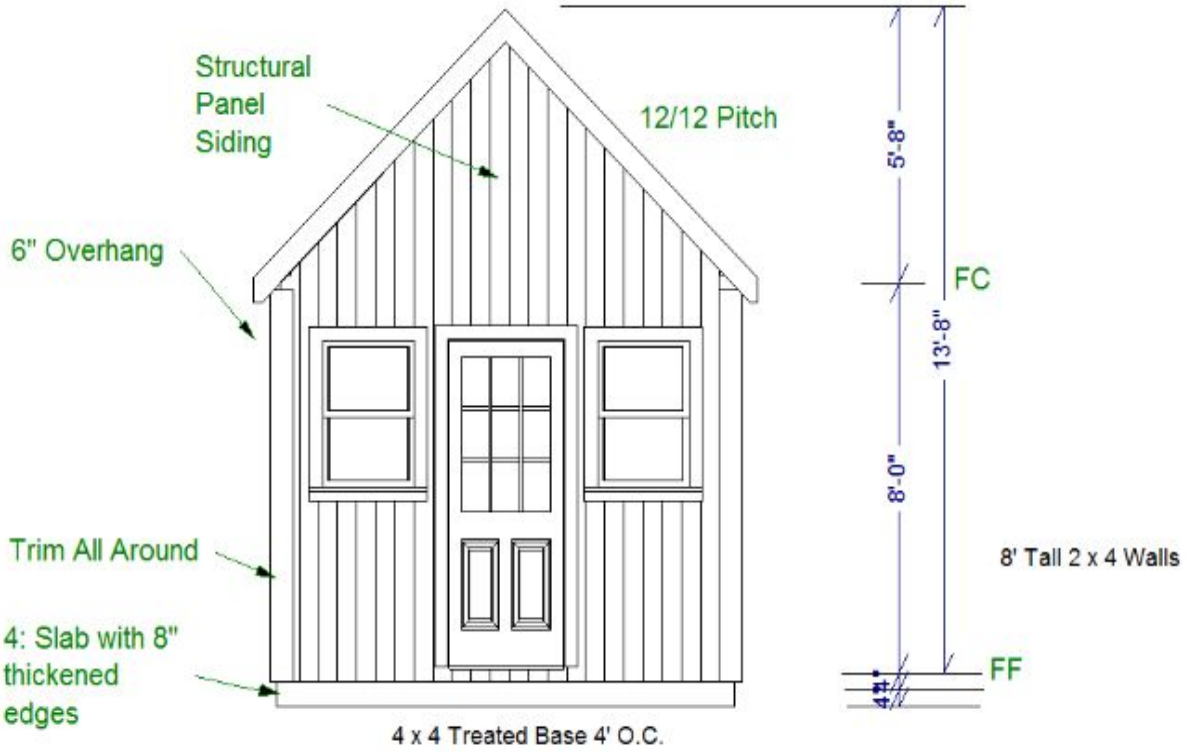
Studs are 16” O.C. and ceiling joists are 24” O.C.

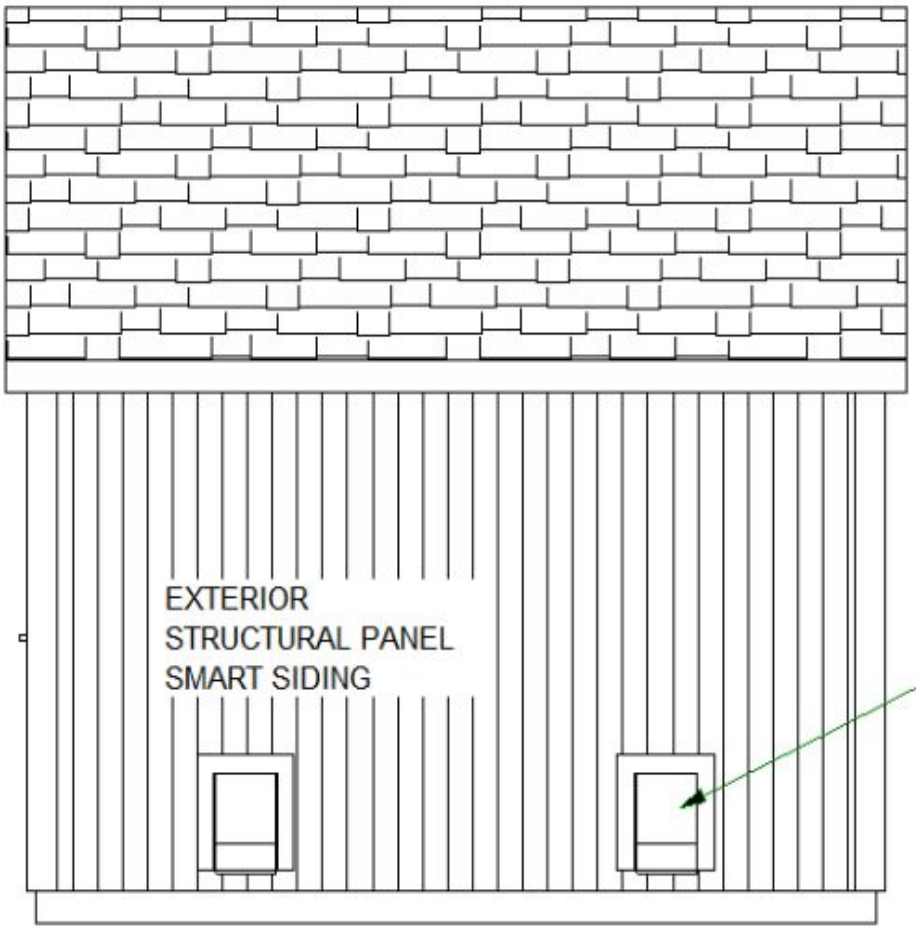
2 x 6 Ridge Beam




2 x 4 wall studs 16" O.C.
2 x 4 Pressure Treated Bottom Plate

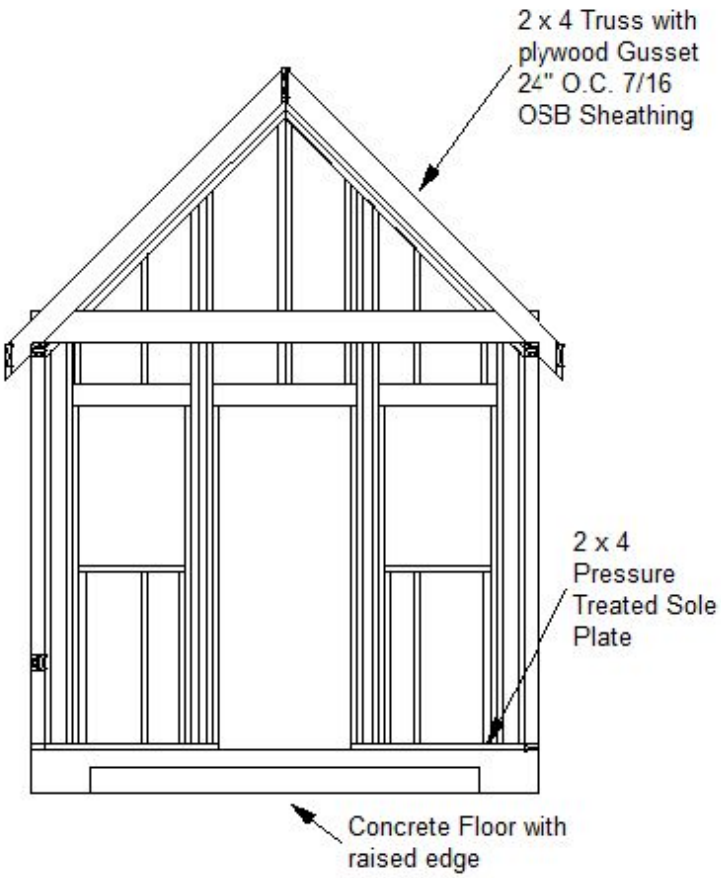



Structural
Panel
Siding
12/12 Pitch
6" Overhang
5'-8"
FC
13'-8"
8'-0"
8' Tall 2 x 4 Walls
Trim All Around
4: Slab with 8"
thickened
edges
FF
4 x 4 Treated Base 4' O.C.


EXTERIOR
STRUCTURAL PANEL
SMART SIDING
Optional 12 x
18 Chicken
Doors

General framing: (Douglas Fir)

1. Minimum header sizes shall be according to the following table unless otherwise noted. Header sizes (single story construction)
   2'-0" to 4'-0" Span 2-2x4's
   4' + to 6'-0" Span 2-2x6's
   6' + to 8'-0" Span 2-2x8's
   8' + to 10'-0" Span 2-2x10's
   10' + to 12'-0" Span 2-2x12's or as noted on plan
2. Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
   a. Simpson WB 126 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
   b. Plywood sheathing of a minimum thickness of 7/16 inch.
3. Fire stopping:
   a. Fireblock stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc. Firestopping shall consist of 2" nominal lumber.
   b. Firestop openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with approved noncombustible materials.
4. CDX plywood is not approved where exposed to weather, i.e., roof overhangs.
5. Exterior wall framing to be 2"x4" studs at 16" o.c. Interior wall, framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate.
6. Shear wall to be 7/16" Sheathing, see detail.
7. All stress grade lumber shall comply with WCLA specs and bear approval stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Fb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.


2 x 4 Truss with
plywood Gusset
24" O.C. 7/16
OSB Sheathing
2 x 4
Pressure
Treated Sole
Plate
Concrete Floor with
raised edge

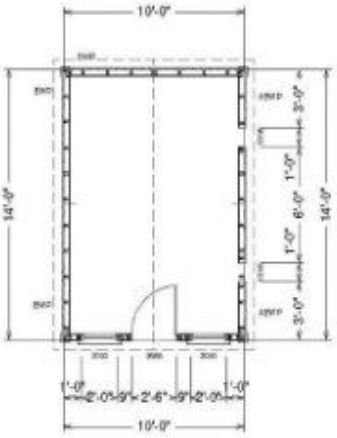
General							
GN1		1	96 high wall	Siding-4	47	0	ft
GN2		1		heated ceiling area	140.00	0.00	sq ft
GN3		1		heated floor area	140.00	0.00	sq ft
GN4		1		heated wall area	344.00	0.00	sq ft
GN5		1		heated glass area	12.00	0.00	sq ft
GN6		1		heated door area	20.00	0.00	sq ft
GN7		2	57 1/4 high wall	Siding-4	19	0	ft
							Subtotal:
Subfloor							
SF1		1	8'x4'x3/4"	Sheet Plywood	4	0	
SF2		1	2x8"-10'	ceiling joists - lumber	7	0	
							Subtotal:
Framing							
F1		1	2x4-16ft+	fir plate	160	0	ft
F2		1	2x4-16ft+	fir stud stock	260	0	ft
F3		1	2x4"-91 1/2"	fir stud	29	0	
F4		1	2x4"-70 1/2"	fir stud	2	0	
F5		1	2x4-16ft+	header - lumber	5	0	ft
F6		1	2x6-16ft+	header - lumber	15	0	ft
F7		2	2x4-16ft+	fir stud stock	45	0	ft
F8		2	2x4-16ft+	fir plate	56	0	ft
							Subtotal:
Siding							
S1		1	7" wide	Siding Wood White	843	0	ft
S2		1		house wrap	383.00	0.00	sq ft
S3		2	7" wide	Siding Wood White	109	0	ft
							Subtotal:
Ext Trim							
EX1		0	4" thick	- concrete grey	2.66	0.00	cu yd
EX2		1	1x5-12"	door threshold	2	0	
EX3		1	1x4-16ft+	ext. door casing - color white	27	0	ft
EX4		1	5 in	ext. door jamb - color white	27	0	ft
EX5		1	1x4-16ft+	exterior sill - color white	5	0	ft
EX6		1	1x4-16ft+	ext. window casing - color white	18	0	ft
EX7		1	1x5-30"	door threshold	1	0	
EX8		1	1x6 in (2)	corner board - color white	32	0	ft
							Subtotal:
Roofing							
R1		1	2x8"-16'	ridge board - lumber	1	0	
R2		1	2x6"-16'+	rafters - lumber	128	0	ft
R3		1	2x6"-16'	rafters - lumber	2	0	
R4		1	2x6"-10'	rafters - lumber	4	0	
R5		1	2x4"-16'+	rafters - lumber	18	0	ft
R6		1		ridge vent	15	0	ft
R7		1		ridge cap	15	0	ft
R8		1		Roofing Dimensional Comp.	233.00	0.00	sq ft
R9		1	4x8' sheets	roof sheathing	8	0	
R10		1	2x6"	gable fascia	31	0	ft
R11		1	2x6"	eave fascia	30	0	ft
R12		1		metal drip edge	61	0	ft
							Subtotal:
Insulation							
IN1		1	12x24x48" batts	ceiling insulation	17	0	
IN2		1	12x16x48" batts	floor insulation	26	0	
IN3		1	4x16x93" batts	wall insulation	32	0	
							Subtotal:
Flooring							
FL1		1	2 1/4" wide	Flooring Oak-Golden	664	0	ft
Wall Brd							
WB1		1	4'x8'x1/2"	Sheet Sheetrock	12	0	
WB2		1		Color Bone White	124.00	0.00	sq ft
WB3		1	4'x8'x3/4"	Sheet Sheetrock	4	0	
WB4		2	4'x8'x1/2"	Sheet Sheetrock	2	0	
							Subtotal:
Windows							
W1		1	24x36	single hung	2	0	
Doors							
D1		1		handle: Lever (decorative)	1	0	
D2		1		handle: Exterior Handle (ext.)	1	0	
D3		1		lock: Dead Bolt (interior)	1	0	
D4		1		lock: Dead Bolt (exterior)	1	0	
D5		1		hinge: hidden	3	0	
D6		1	30x80x1 3/4R	ext. 3068 19	1	0	
							Subtotal:
Int Trim							
T1		1	1x4-16ft+	interior casing	46	0	ft
T2		1	1x4-16ft+	window apron	5	0	ft
T3		1	1x4-16ft+	sill	5	0	ft
T4		1	1x6-16ft+	base molding	46	0	ft
							Subtotal:
							Total:

BUILDING CONTRACTOR/HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS. BARN TO BE BUILT AS PER LOCAL CODE REQUIREMENTS

To the best of my knowledge these plans are drawn to comply with owner's and/or builder's specifications and any changes made on them after plans are made will be done at the owner's and /or builder's expense and responsibility. The contractor shall verify all dimensions and enclosed drawing. SDS-CAD is not liable for errors once construction has begun. While every effort has been made in the preparation of this plan to avoid mistakes, the maker can not guarantee against human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter. All calculations and member sizing should be verified for your building by a certified building official.

#G488 10 x 14 x 8 Shed - Chicken Coop
By SDS-CAD Specialized Design Systems

30 year architectural shingles and structural panel siding. Nailing schedule is 6" on ends 12" on centers 4d nails. Framing is 2" x 4" on 16" centers. 8' ceiling height.



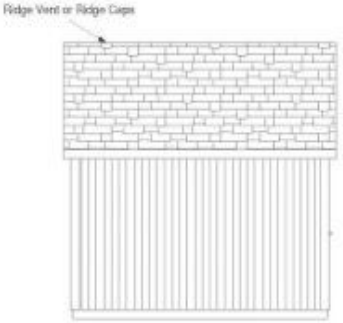
SCALE 1/4"=1'

MAIN FLOOR PLAN

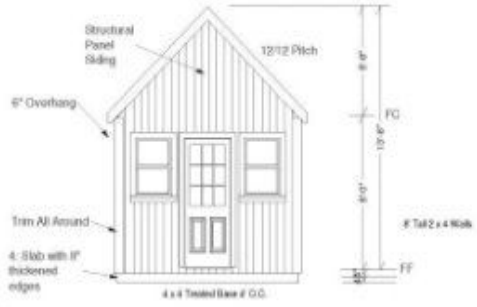
Residential Design

SDS-CAD Specialized Design Systems

REAR ELEVATION

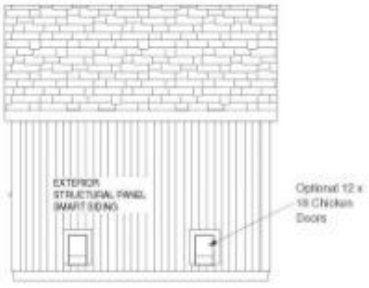


LEFT ELEVATION



SCALE 1/4"=1'

FRONT ELEVATION



RIGHT ELEVATION

Residential Design

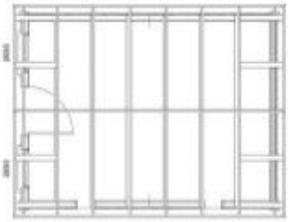
SDS-CAD Specialized Design Systems

Concrete
1. All slabs are to be min 6" concrete over 4" gravel unless otherwise noted on the plans.
2. Concrete to be ACI 301-66, Type II cement, 2500 psi at 28 days, 5" maximum slump.
3. If required reinforcing to be ASTM A615-Bars with Fy=60 ksi keep 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on Fc 1500 psi, Fc 2500 psi for quality only.
5. Anchor bolts shall be A 307 embedded 7" minimum into concrete or masonry grout.

PICTORIAL VIEW

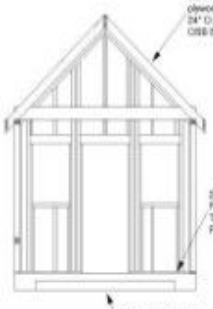
FLOOR AND BASE PLAN

SCALE 1/4"=1'



Roof Framing 24" O.C. Trusses or 2 x 6 Rafters with 2 x 6 Ridge Beam and 2 x 4 Ceiling Joists

Framing sizes are for basic reference only



WALL FRAMING SECTIONS

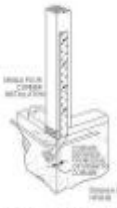
SCALE 1/4"=1'

General Framing: (Douglas Fir)

1. Minimum header sizes shall be according to the following table unless otherwise noted. Header sizes (single story construction):
   2'-0" to 4'-0" Span 2-2x4's
   4' + to 6'-0" Span 3-2x6's
   6' + to 8'-0" Span 2-2x8's
   8' + to 10'-0" Span 2-2x10's
   10' + to 12'-0" Span 2-2x12's or as noted on plan
2. Brace all exterior walls and cross stud partitions at each end of building and at least every 25' of length by one of the following:
   a. Simpson Wb 108 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
   b. Plywood sheathing of a minimum thickness of 7/16 inch.
3. Fire stopping:
   a. Fireblock stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc.
   Fireblocking shall consist of 2" nominal lumber.
   b. Fireline openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with approved noncombustible materials.
4. CDX plywood is not approved where exposed to weather, i.e., roof overhangs.
5. Exterior wall framing to be 2"x4" studs at 16" o.c. Interior wall, framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate.
6. Shear wall to be 7/16" Sheathing, see detail.
7. All stress grade lumber shall comply with WCLA specs and bear approved stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Fb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.

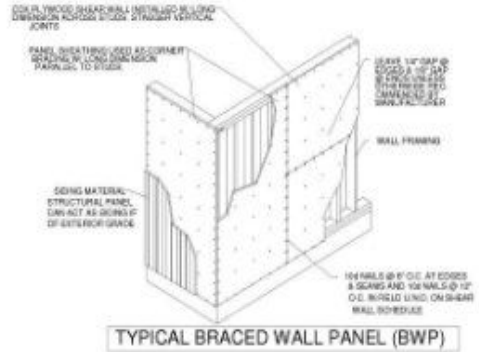
Roof Framing

1. Fascia to be 2"x Douglas Fir.
2. For soffit size see details.
3. For spans and dimensions refer to floor plans.
4. Use Simpson H1 hurricane anchors at each truss or rafter to wall connection.
5. Solid blocking required between joists, rafters, and trusses over all bearing walls. Such blocking shall be 1 1/2" minimum thickness and full depth of joists, rafters, or trusses.
6. Minimum header sizes shall be according to the header size table unless otherwise noted.
7. Basis of design roof live/snow load of 40 psf, and roof dead load of 15 psf.
8. Plywood roof decking to be Min ½" thick, 24/0, CDX or .5/8 wafer.
9. 4/12 Pitch Engineered Attic Scissor Trusses.

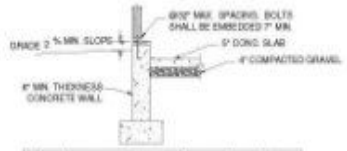


HPAHD straps for all (ABWP) Alternate Braced Wall Panels
See additional detail for all (BWP) Braced Wall Panels

TYPICAL ALTERNATE BRACED WALL PANEL (ABWP)

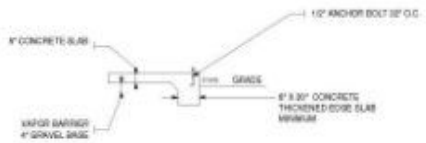


TYPICAL BRACED WALL PANEL (BWP)



Footing and concrete wall option

NOTE: TYPICAL DETAILS FOR CONSTRUCTION TO MEET BUILDING REQUIREMENTS. BARN TO BE BUILT AS PER LOCAL CODE REQUIREMENTS

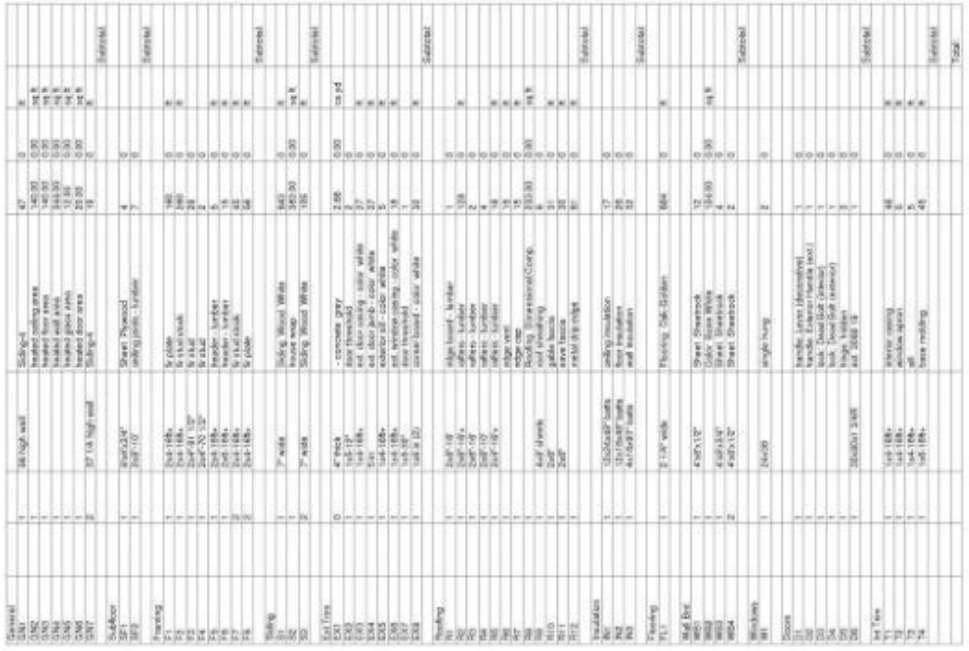


Monolithic slab foundation option

Residential Design

SDS-CAD Specialized Design Systems

DETAILS



Computer Generated Materials List
From the 3D CAD Model
Verify Before Construction

Residential Design

SDS-CAD Specialized Design Systems

Bonus 10 x 14 Garden Shed Plans and Videos

How to build this little red garden shed

Video 1 Plans and Materials http://www.screencast.com/t/ZKMxNsdCxxp6
Video 2 Building the Floor http://www.screencast.com/t/106SiGQVdq
Video 3 Building the Walls http://www.screencast.com/t/XMbkaBiHQi
Video 4 Sheathing the Walls http://www.screencast.com/t/NFXVz2Gk
Video 5 Building the Roof Part 1&2 http://www.screencast.com/t/kxkD8VgA
http://www.screencast.com/t/z2SGAgJ6hbHj
Video 6 Sheathing the Roof http://www.screencast.com/t/VqhaVeKHSF
Video 7 Installing Windows http://www.screencast.com/t/bEZV0EEu
Video 8 Shingling the Roof http://www.screencast.com/t/5VoLXmEBjC00
Video 9 Installing Trim and Building Doors http://www.screencast.com/t/7Hu8owzsY2
Video 10 Building Interior Shelves http://www.screencast.com/t/tccpquesw

BUILDING CONTRACTOR/HOME OWNER
TO REVIEW AND VERIFY ALL DIMENSIONS,
SPECS, AND CONNECTIONS BEFORE
CONSTRUCTION BEGINS. GARAGE TO BE
BUILT AS PER IRC, UBC OR CURRENT LOCAL CODE

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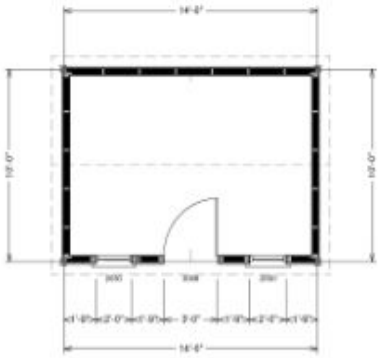
G473 10 X 14 X 8 Garden Shed Plan / Playhouse
By SDS-CAD Specialized Design Systems

30 year dimensional shingles and horizontal siding over structural panel. Nailing schedule is 6" on ends 12" on centers 6d nails. Trusses or rafters are 24" o.c. framing is 2" x 4" on 16" centers. 7'-6" ceiling height.



SCALE 1/4"=1'

GARAGE MAIN FLOOR PLAN

REAR ELEVATION

LEFT ELEVATION

FRONT ELEVATION

SCALE
1/4"=1'

5/12 PITCH
RAFTER OR
TRUSS
ON 24"
CENTERS

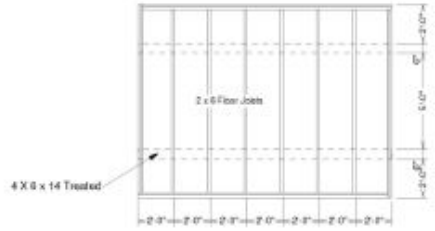
ARCHITECTURAL
ASPHALT
SHINGLES

8' Tall 2 x 4 Walls

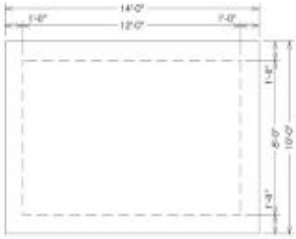
Finish to match
College
Lap siding with
7" exposure
Trim with pine
boards
Paint to match

RIGHT ELEVATION

PICTORIAL VIEWS



FLOOR SKID OPTION



FOUNDATION OPTION

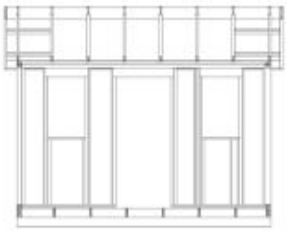
SCALE 1/4"=1'

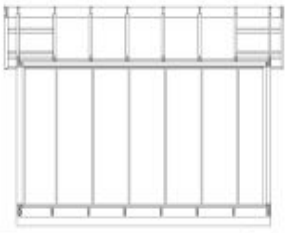
Concrete:

1. All slabs are to be 4" concrete over 4" gravel unless otherwise noted on the plans.
2. Concrete to be ACI 301-66, Type II cement, 2500 psi at 28 days, 6" maximum slump.
3. If required reinforcing to be ASTM A615-Bars with Fy=60 ksi lamp 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on Fc 2000 psi, Fc 2500 psi for quality only.
5. Anchor bolts shall be A-307 embedded 7" minimum into concrete or masonry grout.
6. All footings minimum 24" below final grade.
7. Sloped 1" per 10' to door Thickened edge slab 12" x 24"

GARAGE ROOF TRUSSES OR RAFTER WITH RIDGE BEAM 24" o.c.

7'-6" Tall 2 x 4 Walls
2 x 6 Floor Joists





WALL FRAMING SECTIONS

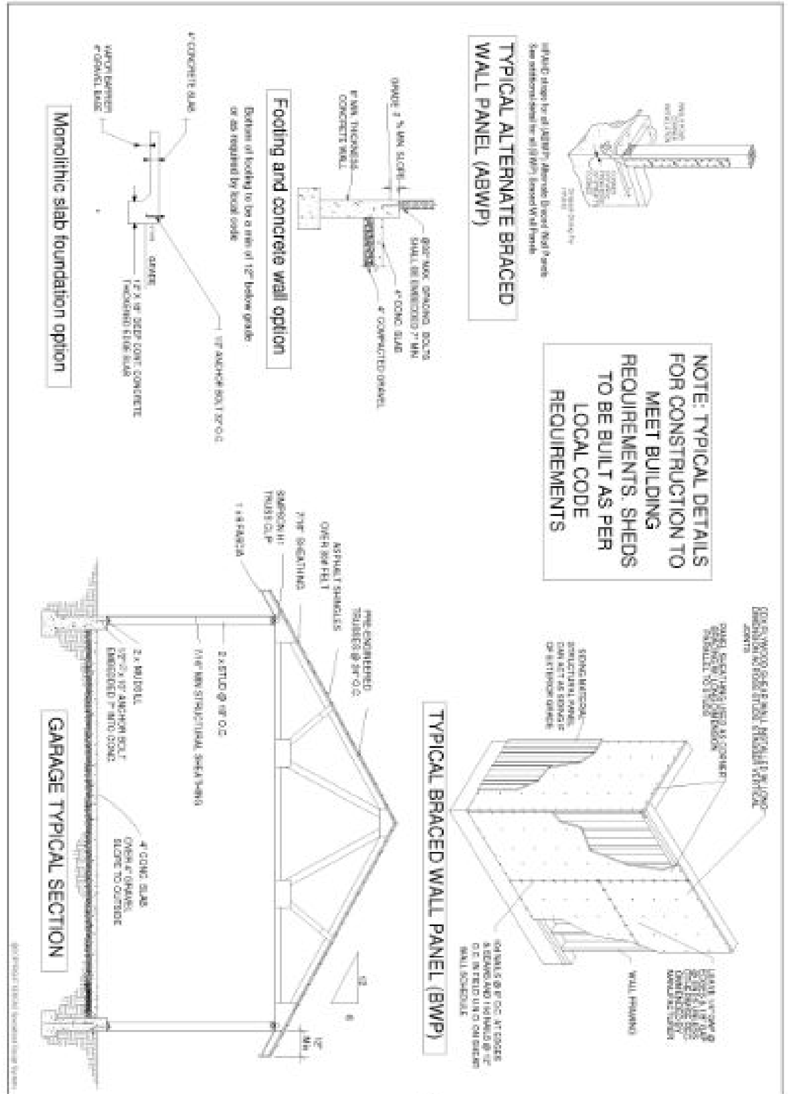
SCALE 1/8"=1'

General framing: (Douglas Fir)

1. Minimum header sizes shall be according to the following table unless otherwise noted. Header sizes (single story construction)
   2'-0" to 4'-0" Span: 2-2x6's
   4' + to 6'-0" Span: 2-2x8's
   6' + to 10'-0" Span: 2-2x10's
   10' + to 12'-0" Span: 2-2x12's or as noted on plan
2. Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
   a. Simpson WB 128 wall bracing with 3-10d nails at each end and 1-4d nails at each stud.
   b. Plywood sheathing of a minimum thickness of 7/16 inch
3. Fire stopping:
   a. Firestock stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc.
   Firestopping shall consist of 2" nominal lumber.
   b. Firestop openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with approved noncombustible materials.
4. CDX plywood is not approved where exposed to weather, i.e., roof overhangs.
5. Exterior wall framing to be 2"x6" studs at 16" o.c. Interior wall, framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate.
6. Shear wall to be 7/16" Sheathing, see detail.
7. All stress grade lumber shall comply with WCLA specs and bear approval stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Fb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.

Roof Framing:

1. Fascia to be 2" x Douglas Fir.
2. For soffit size see details.
3. For spans and dimensions refer to floor plans.
4. Trusses are to be an approved truss design from the truss manufacturer's engineer.
5. Use Simpson H-1 hurricane anchors at each truss or rafter to wall connection.
6. Solid blocking required between joists, rafters, and trusses over all bearing walls. Such blocking shall be 1 ½" minimum in thickness and full depth of joists, rafters, or trusses.
7. Minimum header sizes shall be according to the header size table unless otherwise noted.
8. Basis of design roof live/snow load of 37 psf, and roof dead load of 15 psf.
9. Plywood roof decking to be Min ½" thick, 24/0, CDX or 5/8 wafer.

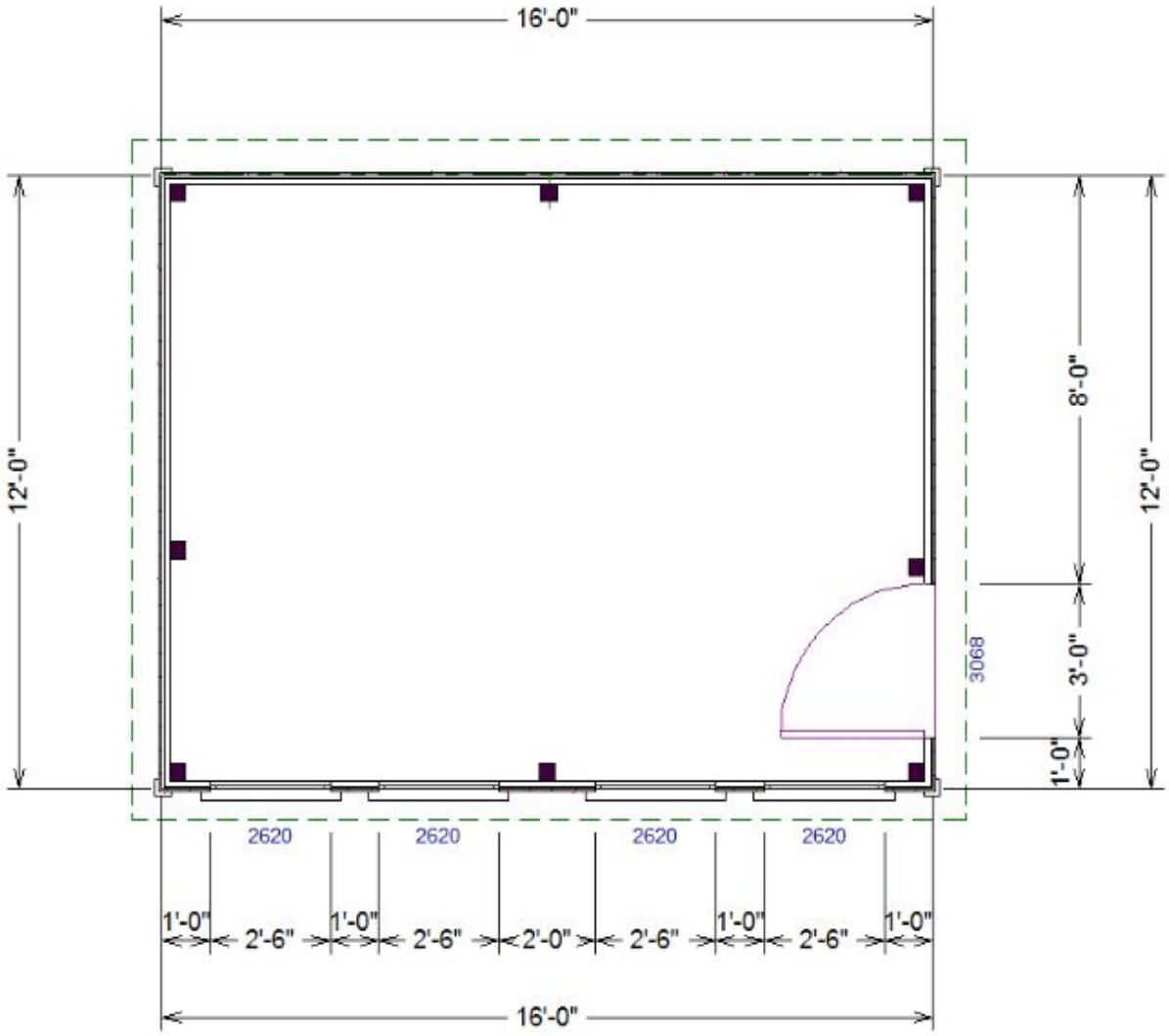


General								
GN1		1	90 high wall	Siding-4	47	0	ft	
GN2		1		heated ceiling area	140.00	0.00	sq ft	
GN3		1		heated floor area	140.00	0.00	sq ft	
GN4		1		heated wall area	347.00	0.00	sq ft	
GN5		1		heated glass area	8.00	0.00	sq ft	
GN6		2	20 1/4 high wall	Siding-4	18	0	ft	
								Subtotal
Subfloor								
SF1		1	4'x8'x3/4"	Sheet Plywood	4	0		
SF2		1	2x8"-10'	rim joists - lumber	4	0		
SF3		1	2x8"-14'	rim joists - lumber	4	0		
SF4		1	2x8"-10'	floor joists - lumber	8	0		
								Subtotal
Framing								
F1		1	2x4-16ft+	fr plate	140	0	ft	
F2		1	2x4"-88 1/2"	fr stud	33	0		
F3		1	2x4-16ft+	fr stud stock	67	0	ft	
F4		1	2x8-16ft+	header - lumber	18	0	ft	
F5		2	2x4-16ft+	fr stud stock	22	0	ft	
F6		2	2x4-16ft+	fr plate	58	0	ft	
								Subtotal
Siding								
S1		1	8" wide	Siding Vertical Gray	310	0	ft	
S2		1	4'x8'x1/2"	Sheet Plywood-hz	12	0		
S3		1		house wrap	372.00	0.00	sq ft	
S4		2	8" wide	Siding Vertical Gray	33	0	ft	
S5		2	4'x8'x1/2"	Sheet Plywood-hz	1	0		
								Subtotal
Ext Trim								
EX1		1	10x36 in	shutter	4	0		
EX2		1	1x4-16ft+	exterior sill - color white	6	0	ft	
EX3		1	1x4-16ft+	ext. window casing - color white	18	0	ft	
EX4		1	1x5-38"	door threshold	1	0		
EX5		1	1x4-16ft+	ext. door casing - color white	17	0	ft	
EX6		1	5 in	ext. door jamb - color white	17	0	ft	
EX7		1	1x4 in (2)	corner board - color white	31	0	ft	
								Subtotal
Roofing								
R1		1	2x8"-16'	ridge board - lumber	1	0		
R2		1	2x8"-16'	rafters - lumber	2	0		
R3		1	2x8"-16'+	rafters - lumber	28	0	ft	
R4		1	2x4"-16'+	rafters - lumber	20	0	ft	
R5		1	TR-0 1:30"	roof truss	8	0		
R6		1		ridge cap	15	0	ft	
R7		1		Roofing Dimensional Comp.	194.00	0.00	sq ft	
R8		1	4x8' sheets	roof sheathing	6	0		
R9		1	2x8"	gable fascia	25	0	ft	
R10		1	2x8"	eave fascia	31	0	ft	
R11		1		metal drip edge	58	0	ft	
								Subtotal
Insulation								
IN1		1	12x24x48" batts	ceiling insulation	17	0		
IN2		1	12x24x48" batts	floor insulation	17	0		
IN3		1	4x24x93" batts	wall insulation	21	0		
								Subtotal
Flooring								
FL1		1	2 1/4" wide	Flooring Oak-Golden	664	0	ft	
Wall Bd								
WB1		1	4'x8'x1/2"	Sheet Sheetrock	12	0		
WB2		1		Color Bone White	124.00	0.00	sq ft	
WB3		1	4'x8'x3/4"	Sheet Sheetrock	4	0		
WB4		2	4'x8'x1/2"	Sheet Sheetrock	1	0		
								Subtotal
Windows								
W1		1	24x36	double hung	2	0		
Doors								
D1		1	36x80x1 3/4R	ext. 6-Panel - color mesea	1	0		
D2		1		Handle Lever (decorative)	1	0		
D3		1		Handle Exterior Handle (ext.)	1	0		
D4		1		lock Dead Bolt (interior)	1	0		
D5		1		lock Dead Bolt (exterior)	1	0		
D6		1		hinge Hidden	3	0		
								Subtotal
Int Trim								
T1		1	1x4-16ft+	window apron	5	0	ft	
T2		1	1x4-16ft+	sill	5	0	ft	
T3		1	1x4-16ft+	interior casing	36	0	ft	
T4		1	1x6-16ft+	base molding	45	0	ft	
								Subtotal
								Total

Computer generated materials list from the computer model
a great place to start with your material requirements

SDS-CAD
Specialized Design Systems
Residential Design

Bonus Plans 12’ X 16’ Chicken Coop Pole Barn Option



Complete plans are available later in the book.

They have a really nice herb garden in front of their coop.

I built the chicken coop as a pole barn. I used end treated posts to protect against the moisture in the ground. I dug the holes 30” into the ground and used post mix concrete to set them in place.

The coop is 16’ x 12’, I placed the posts 8’ a part on the front and back side of the building.

On the ends I put the post at 8’ and 4’ spacing.

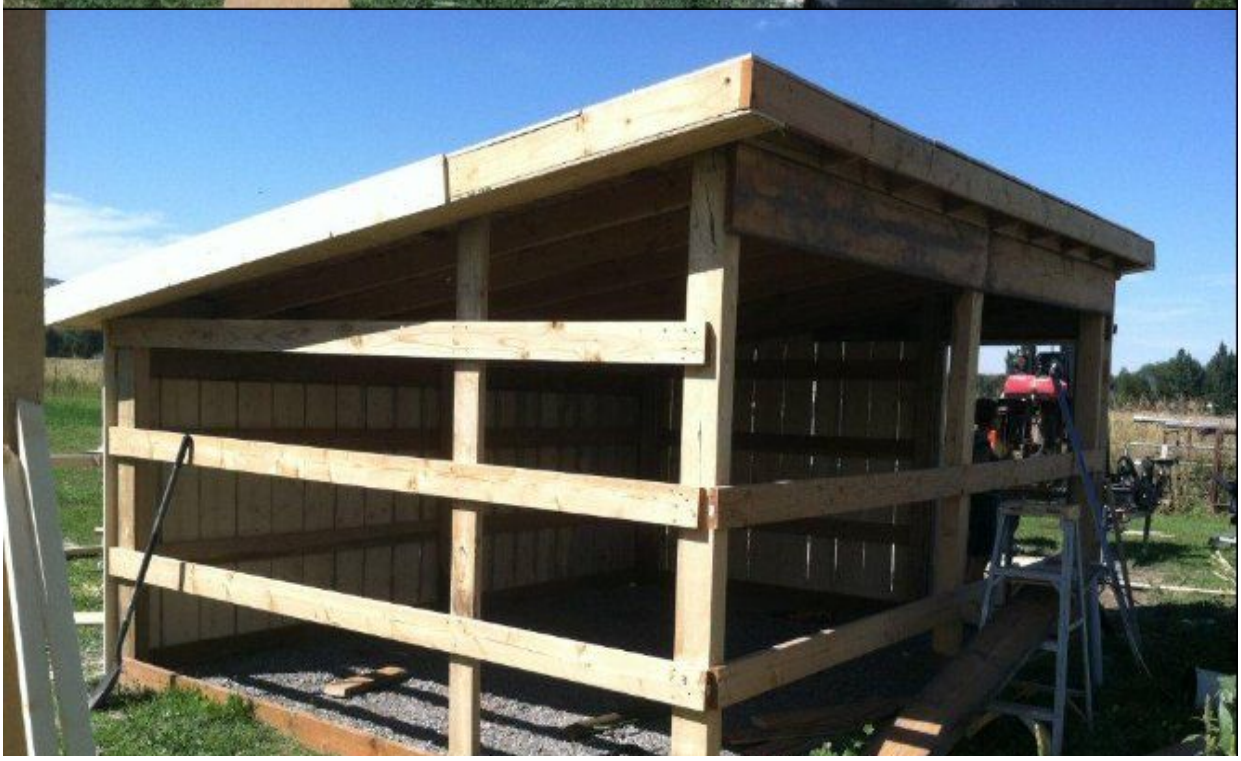
I put the horizontal 2 x 6 boards every 2’ . This shows that the back of the building is 6’ tall and the front is 8’ tall. I then blocked out for a door. I later cut the 2 x 6 to add a taller door to the coop.

The top rail on the front and back is a 2 x 10 to help hold the weight of the roof. Simpson H1 Straps were used on every other roof joist to hold it to that 2 x 10.

The roof is made of 2 x 6 boards 14’ long placed 16” o.c.

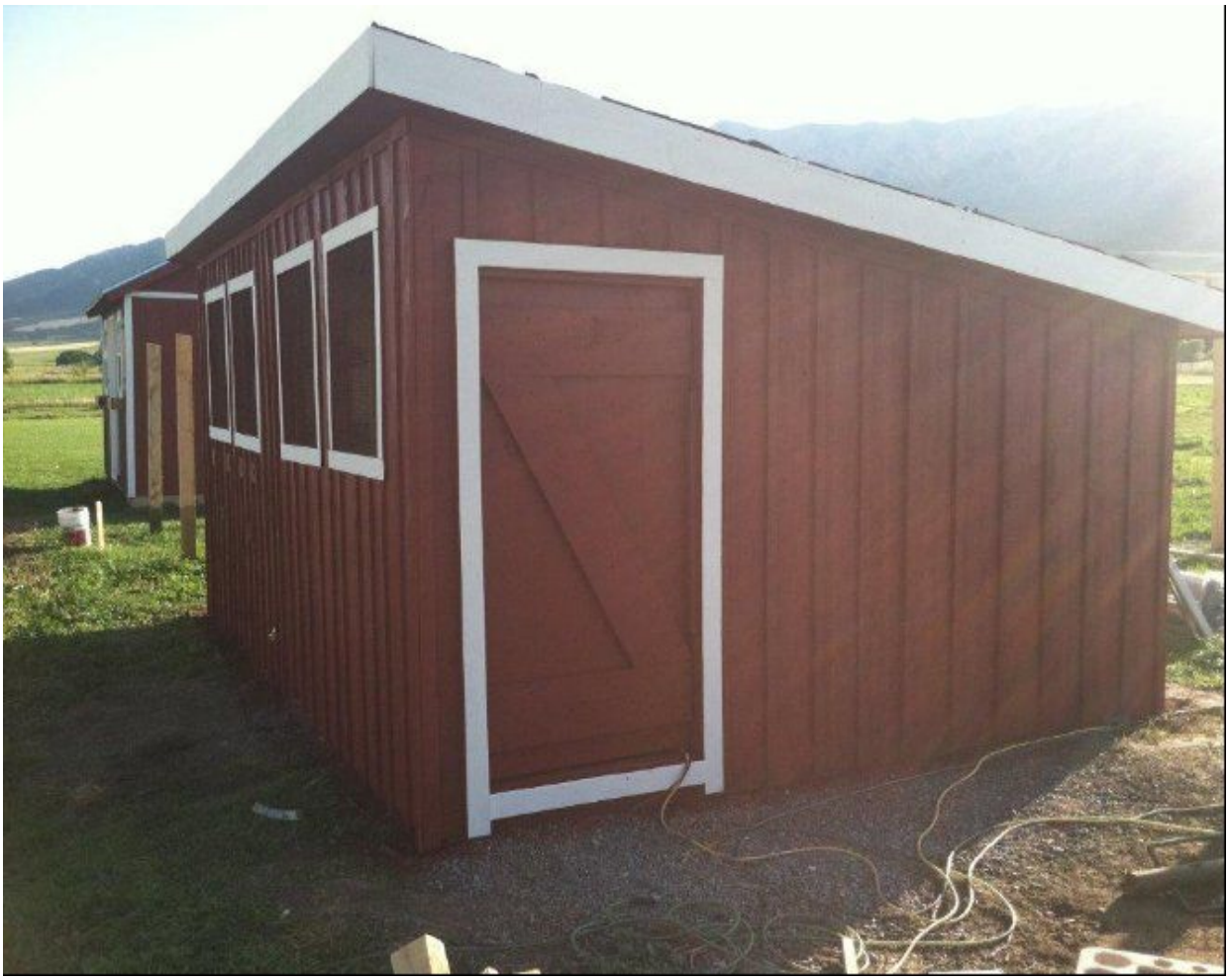
For the exterior of the building I decided to go with a traditional board and batten siding suing some pine that I had cut into 3/4 “ thick boards. You can use any exterior that you want from metal siding to panel siding. I used wood also to trim out the top edge or fascia of the building.

The board and batten siding is made by using 1 x 8 boards and nailing them up with a 1 inch gap and then placing a 2” board over the gap.

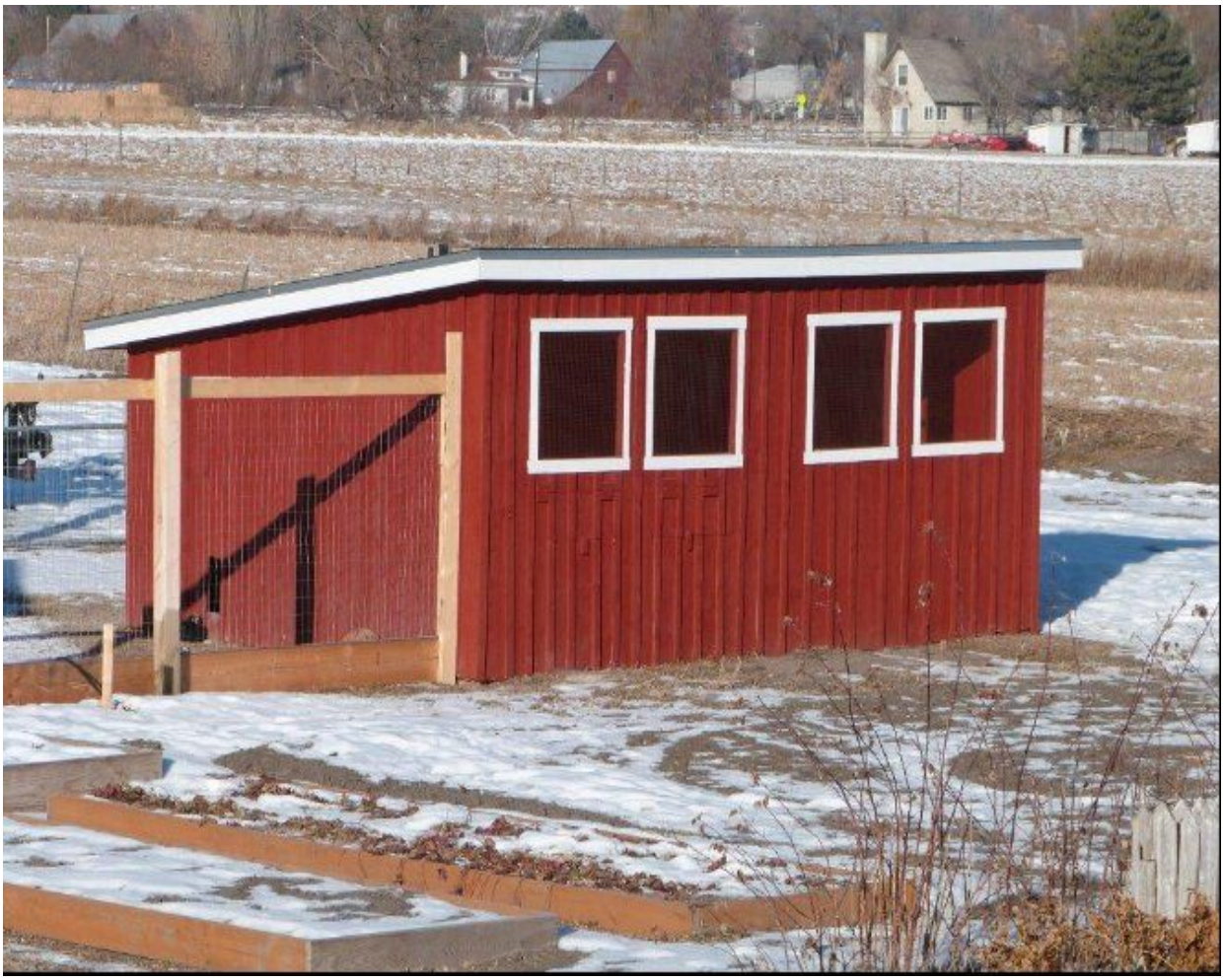


This is a picture of the framed in door.

We framed in 4 windows across the front and covered them with chicken wire.

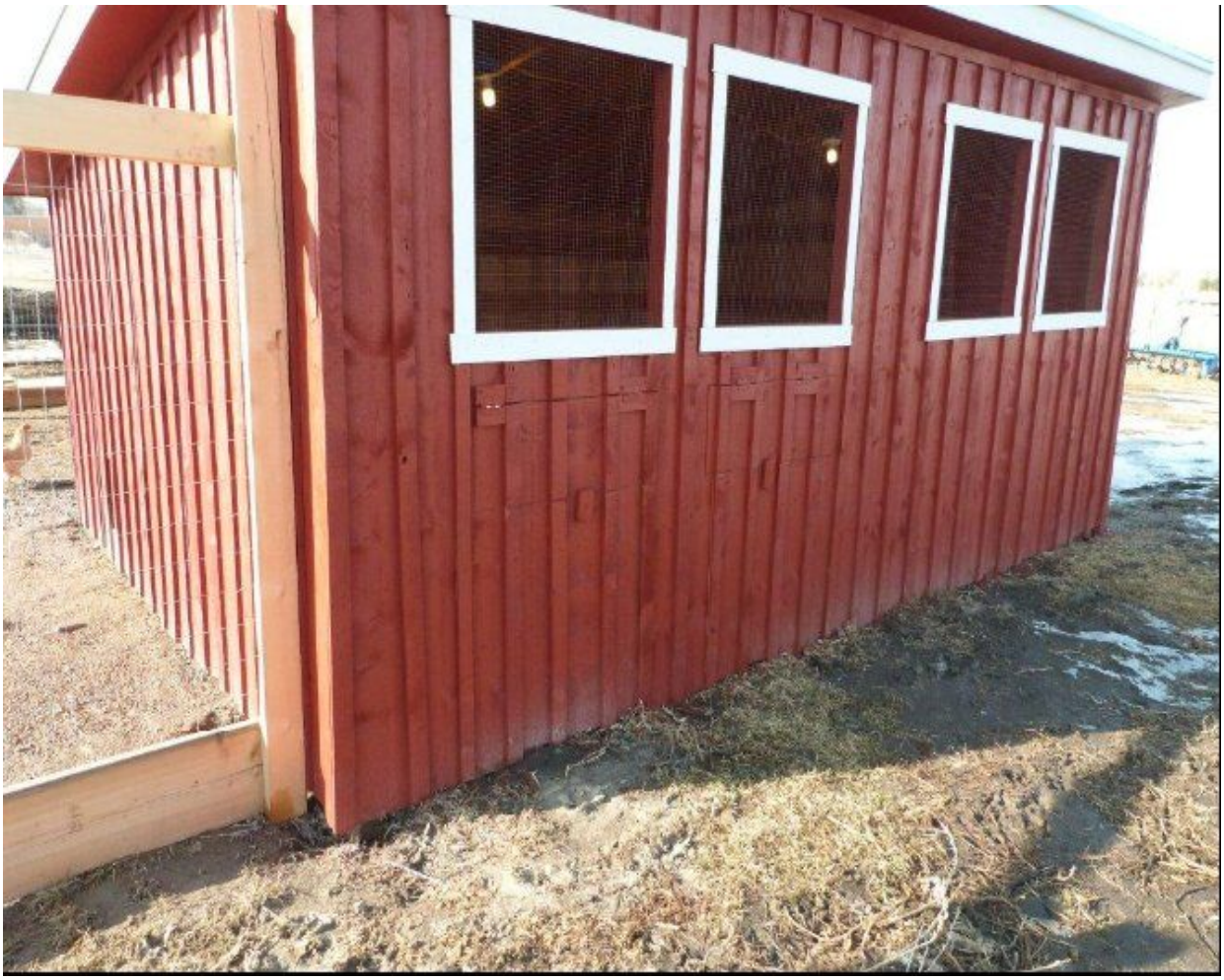


Here is the completed homemade door and the trim around it.



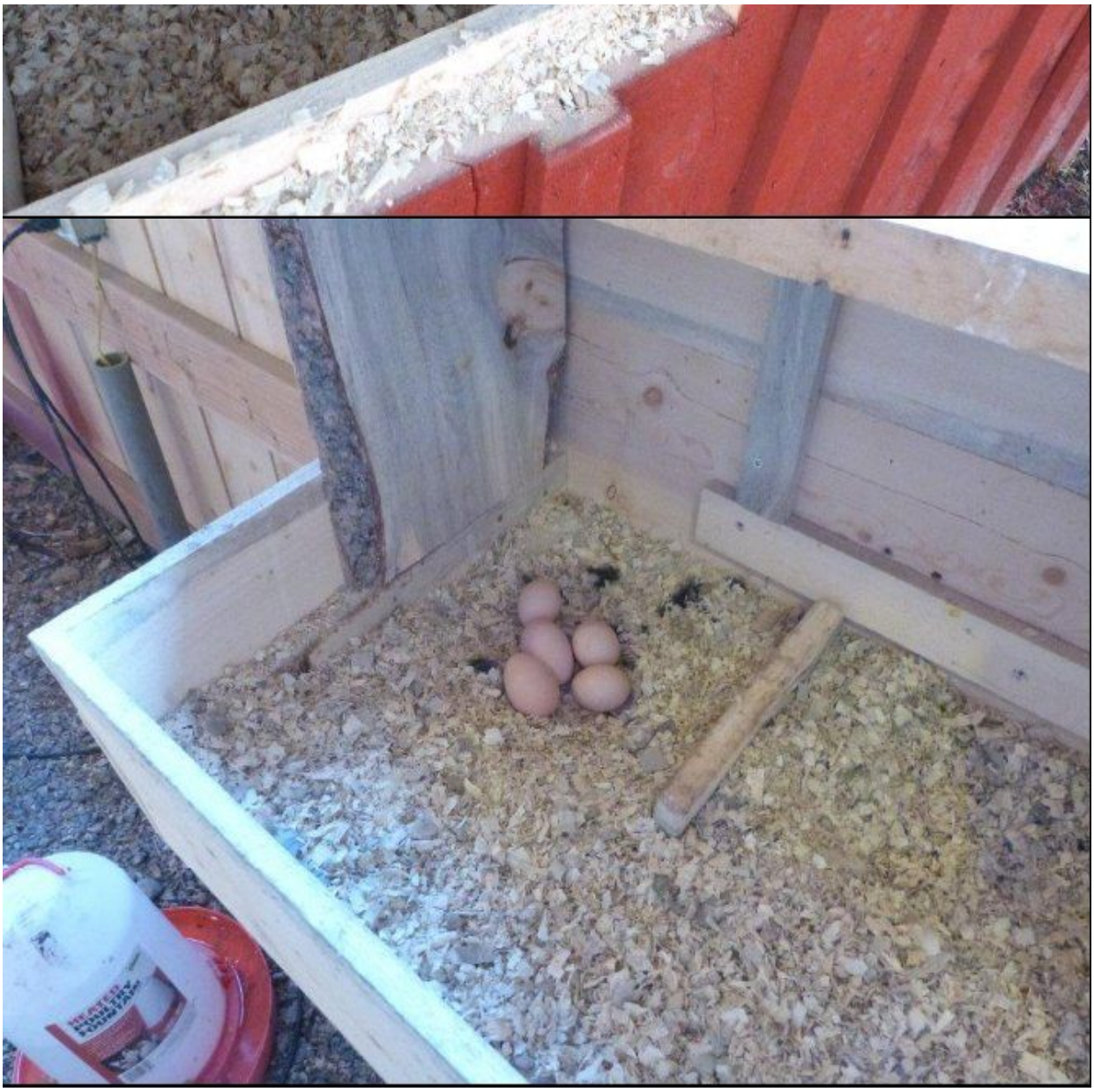
We built a chicken run that is 6’ high and about 30 x 40 attached the chicken coop. It works we well for them to go out. Depending on predators in your area you may have to put a top on the run.

We placed a small door on the wall for the chickens to enter the run. It has a door on it that can be closed if needed.



On the front of the chicken coop we added some small doors over the nesting boxes to be able to access the eggs without entering the chicken coop

The doors open easily from the outside to check for eggs.

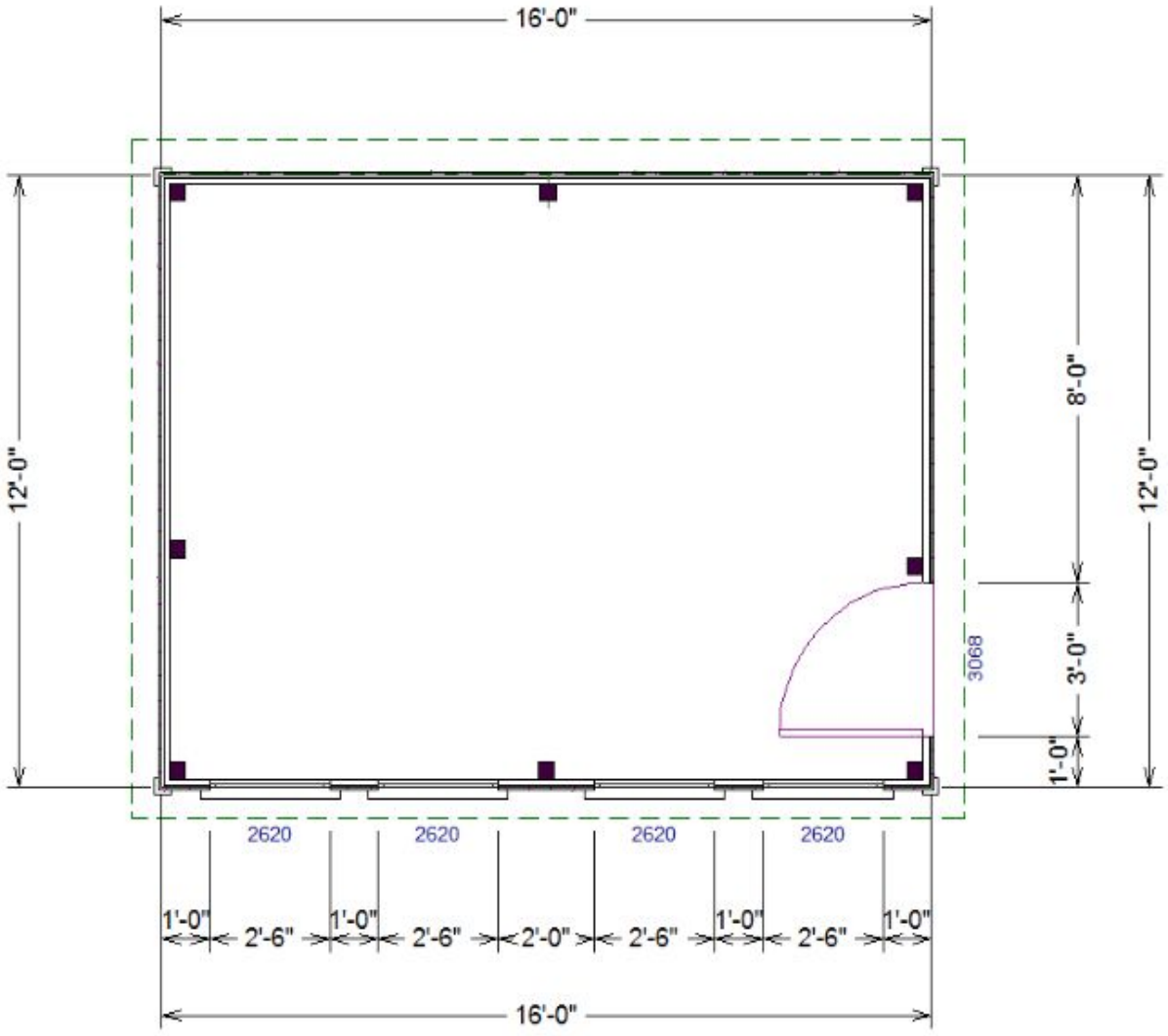


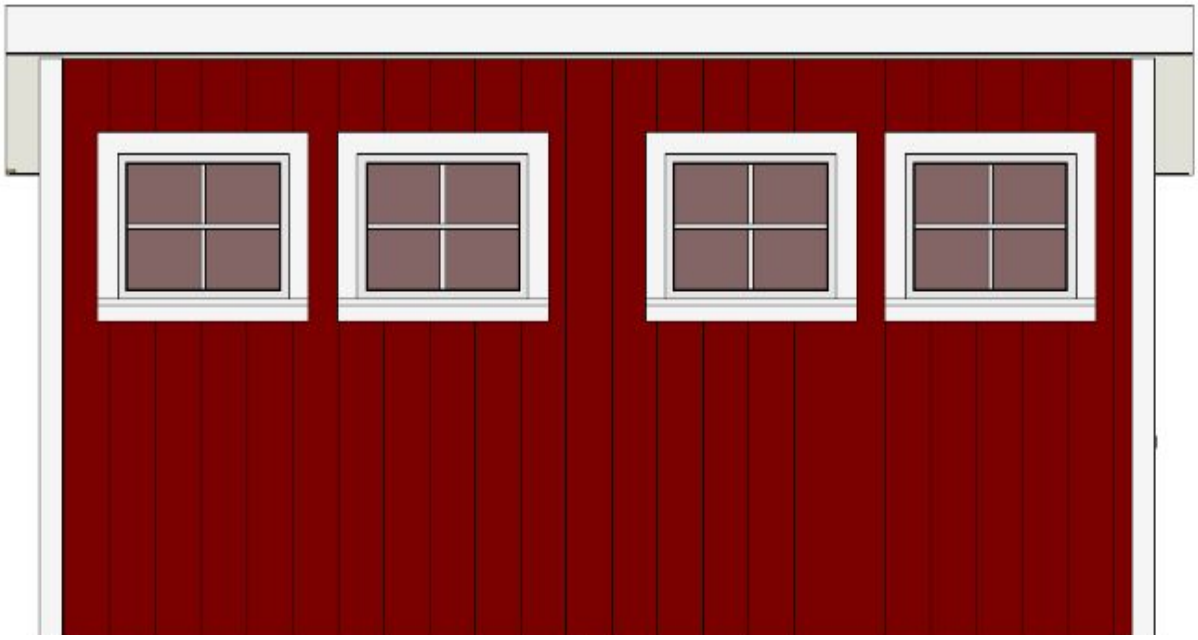
We put some basic nesting boxes together and added sawdust for the chickens to lay their eggs in.

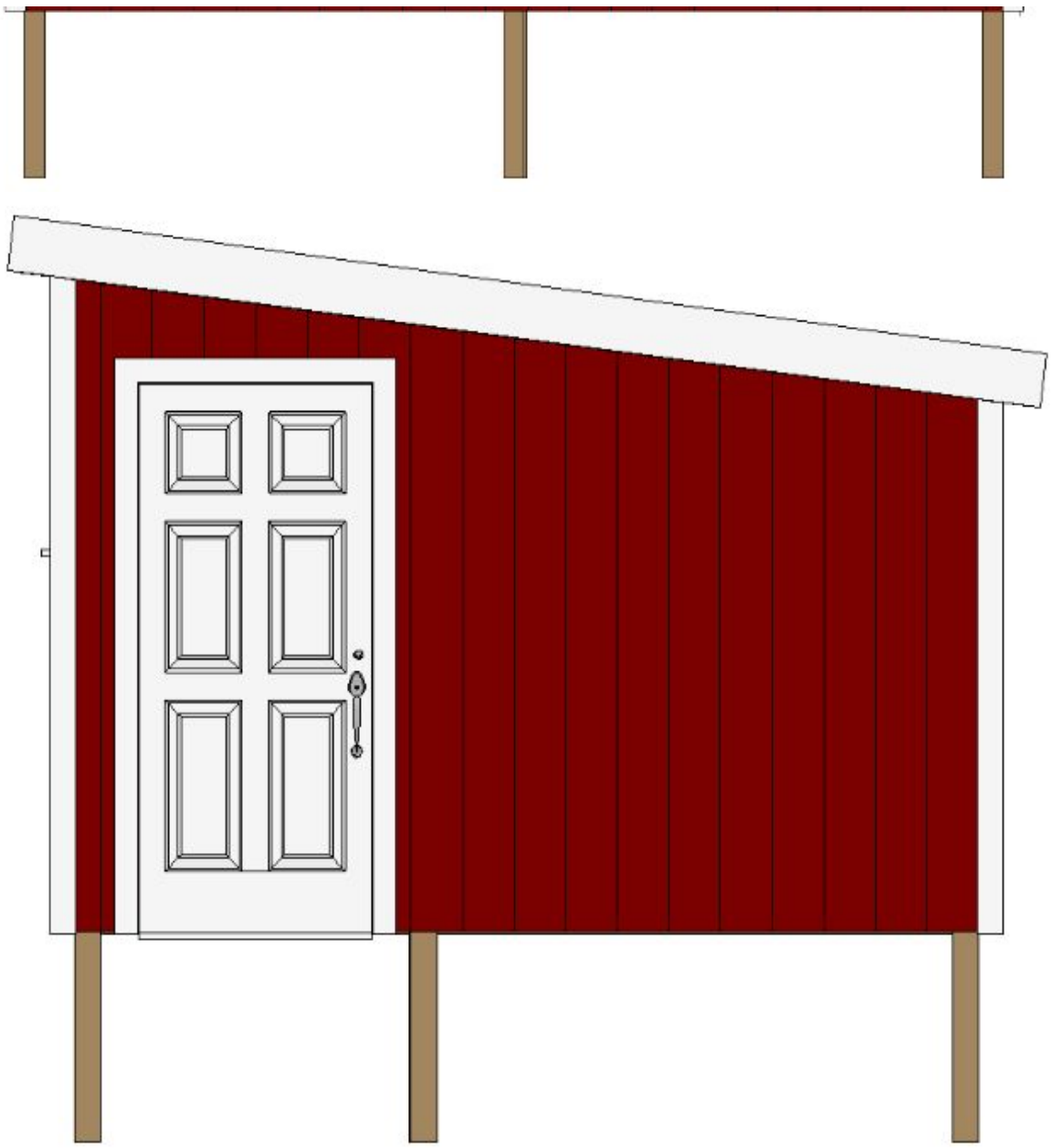
Here is the picture of a simple roosting ladder for the chickens to roost at night.

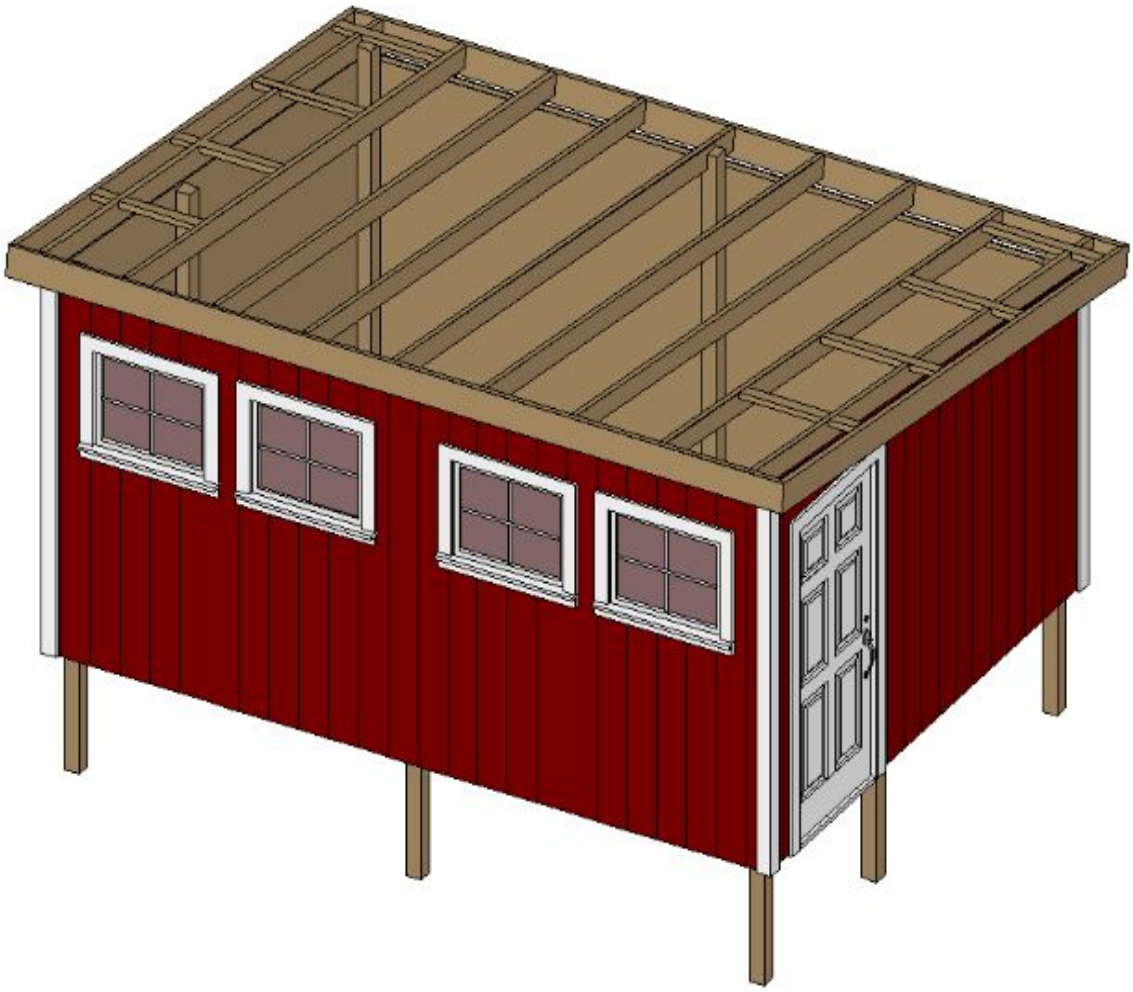
We made just a small door to enter the run. We made it so that it could be closed at night if we had any predator problems.

12’ X 16’ Chicken Coop Pole Barn Option


16'-0"
12'-0"
8'-0"
12'-0"
3068
3'-0"
1'-0"
2620
2620
2620
2620
1'-0"
2'-6"
1'-0"
2'-6"
2'-0"
2'-6"
1'-0"
2'-6"
1'-0"
16'-0"



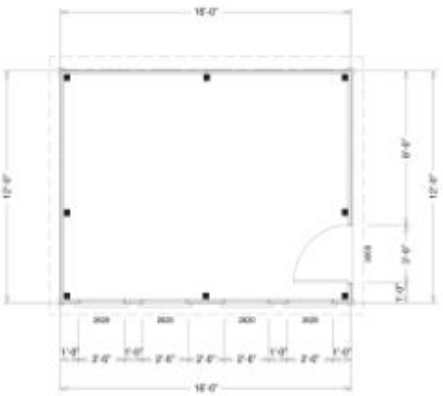




BUILDING CONTRACTOR/HOME OWNER
TO REVIEW AND VERIFY ALL DIMENSIONS,
SPECS, AND CONNECTIONS BEFORE
CONSTRUCTION BEGINS. SHED TO BE
BUILT AS PER IRC, UBC OR CURRENT LOCAL CODE

G481 POLE BARN 12 X 16 X 8
Garden Shed Plan / Playhouse / Chicken Coop
By SDS-CAD Specialized Design Systems

30 year dimensional shingles and horizontal siding over structural panel. Nailing schedule is 6" on ends 12" on centers ad walls. Trusses or rafters are 24" o.c. framing is 2" x 4" on 16" centers. 7'-6" ceiling height.

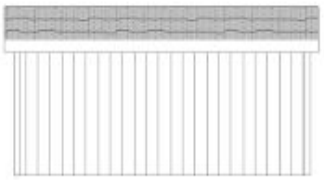


SCALE 1/4"=1'

GARAGE MAIN FLOOR PLAN

Residential Design

SDS-CAD
Specialized Design Systems



REAR ELEVATION

LEFT ELEVATION

1.5/12 PITCH
2 x 6 RAFTER OR TRUSS
ON 16" CENTERS

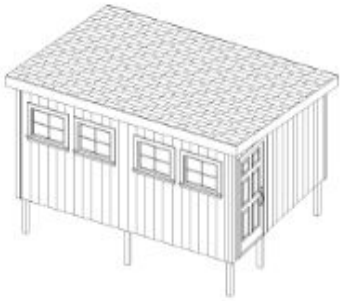
FRONT ELEVATION

SCALE 1/4"=1'

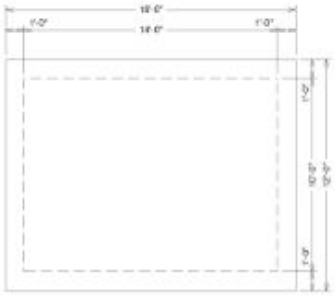
RIGHT ELEVATION

Residential Design

SDS-CAD
Specialized Design Systems



PICTORIAL VIEWS



FOUNDATION OPTION

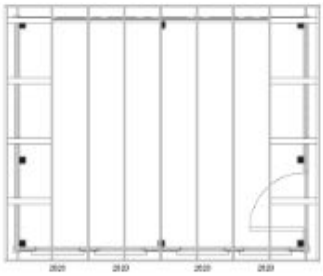
SCALE 1/4"=1'

Concrete:

1. All slabs are to be 4" concrete over 4" gravel unless otherwise noted on the plans.
2. Concrete to be ACI 301-66, Type II cement, 2500 psi at 28 days, 5" maximum slump.
3. If required reinforcing to be ASTM A615 Bars with Fy=60 ksi lamp 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on Fc 2000 psi', Fc 2500 psi for quality only.
5. Anchor bolts shall be A-307 embedded 7" minimum into concrete or masonry grout.
6. All footings minimum 24" below final grade
7. Sloped 1" per 10' to door Thickened edge slab 12" x 24"

Residential Design

SDS-CAD
Specialized Design Systems



SHED ROOF TRUSSES OR 2 x 6 RAFTER 16" O.C.

4 x 4 Pressure Treated Poles min
2 x 6 horizontal purlins 24" O.C.

General framing. (Douglas Fir)

1. Minimum header sizes shall be according to the following table unless otherwise noted. Header sizes (single story construction)
   2'-0" to 4'-0" Span 2-2x4's
   4' + to 6'-0" Span 2-2x8's
   6' + to 8'-0" Span 2-2x8's
   8' + to 10'-0" Span 2-2x10's
   10' + to 12'-0" Span 2-2x12's or as noted on plan
2. Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
   a. Simpson WB 126 wall bracing with 3-10d nails at each end and 1-8d nails at each stud
   b. Plywood sheathing of a minimum thickness of 7/16 inch
3. Fire stopping
   a. Firestops stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc.
   Firestopping shall consist of 2" nominal lumber
   b. Firestop openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with approved noncombustible materials.
4. CDX plywood is not approved where exposed to weather, i.e., roof overhangs.
5. Exterior wall framing to be 2"x4" studs at 16" o.c. Interior wall framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate
6. Shear wall to be 7/16" Sheathing, see detail.
7. All stress grade lumber shall comply with WCLA specs and bear approval stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Fb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.

Roof Framing:

1. Fascia to be 2"x Douglas Fir.
2. For soffit size see details.
3. For spans and dimensions refer to floor plans.
4. Trusses are to be an approved truss design from the truss manufacturer's engineer.
5. Use Simpson H-1 hurricane anchors at each truss or rafter to wall connection.
6. Solid blocking required between joists, rafters, and trusses over all bearing walls. Such blocking shall be 1 1/2" minimum thickness and full depth of joists, rafters, or trusses.
7. Minimum header sizes shall be according to the header size table unless otherwise noted.
8. Basis of design: roof live/snow load of 37 psf, and roof dead load of 15 psf.
9. Plywood roof decking to be Min 1/2" thick, 24/0, CDX or 5/8 sader.

WALL FRAMING SECTIONS

SCALE 1/8"=1'

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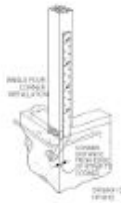
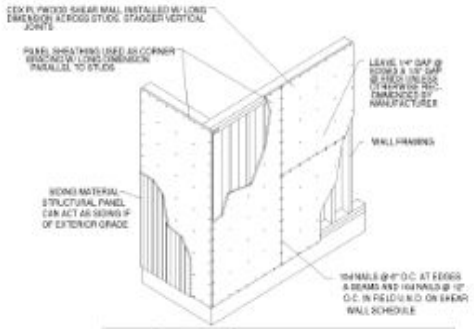


HPAHD straps for all (ABWP) Alternate Braced Wall Panels
See additional detail for all (BWP) Braced Wall Panels

TYPICAL ALTERNATE BRACED WALL PANEL (ABWP)

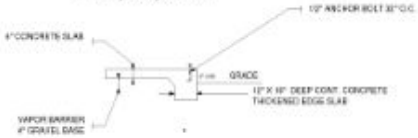
NOTE: TYPICAL DETAILS FOR CONSTRUCTION TO MEET BUILDING REQUIREMENTS. SHEDS TO BE BUILT AS PER LOCAL CODE REQUIREMENTS



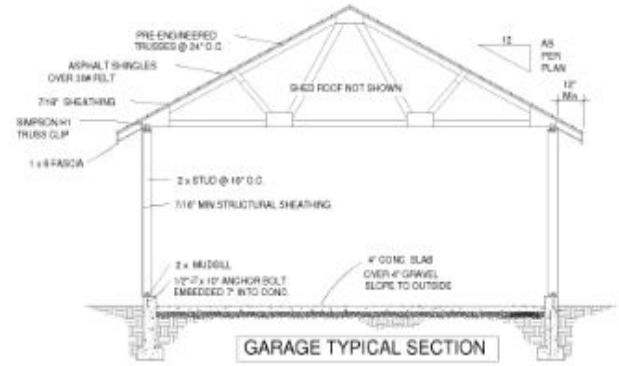
TYPICAL BRACED WALL PANEL (BWP)

Footing and concrete wall option

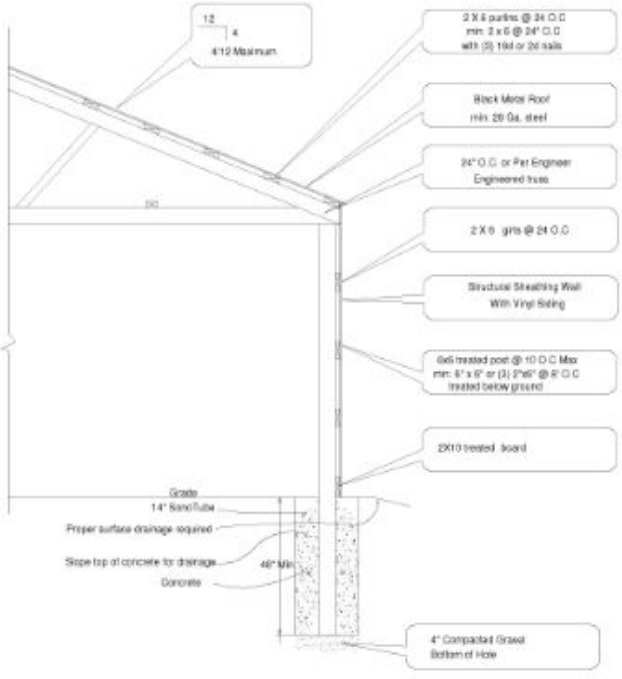
Bottom of footing to be a min of 12" below grade or as required by local code



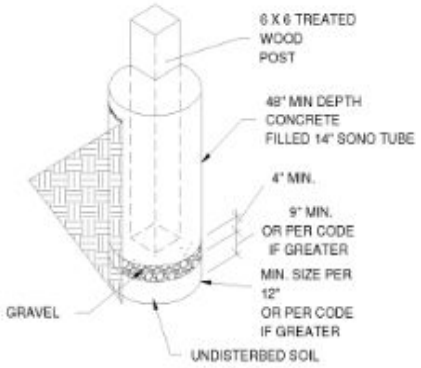
Monolithic slab foundation option



GARAGE TYPICAL SECTION



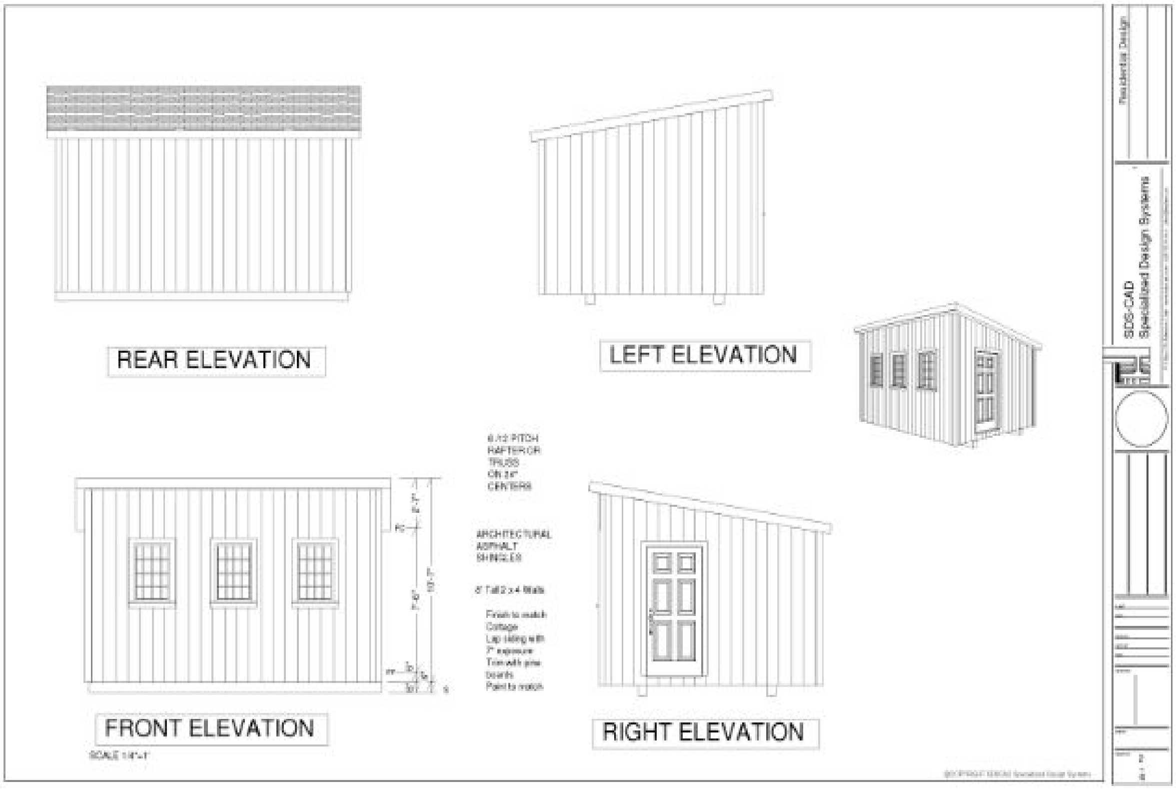
POLE BARN DETAIL OPTION

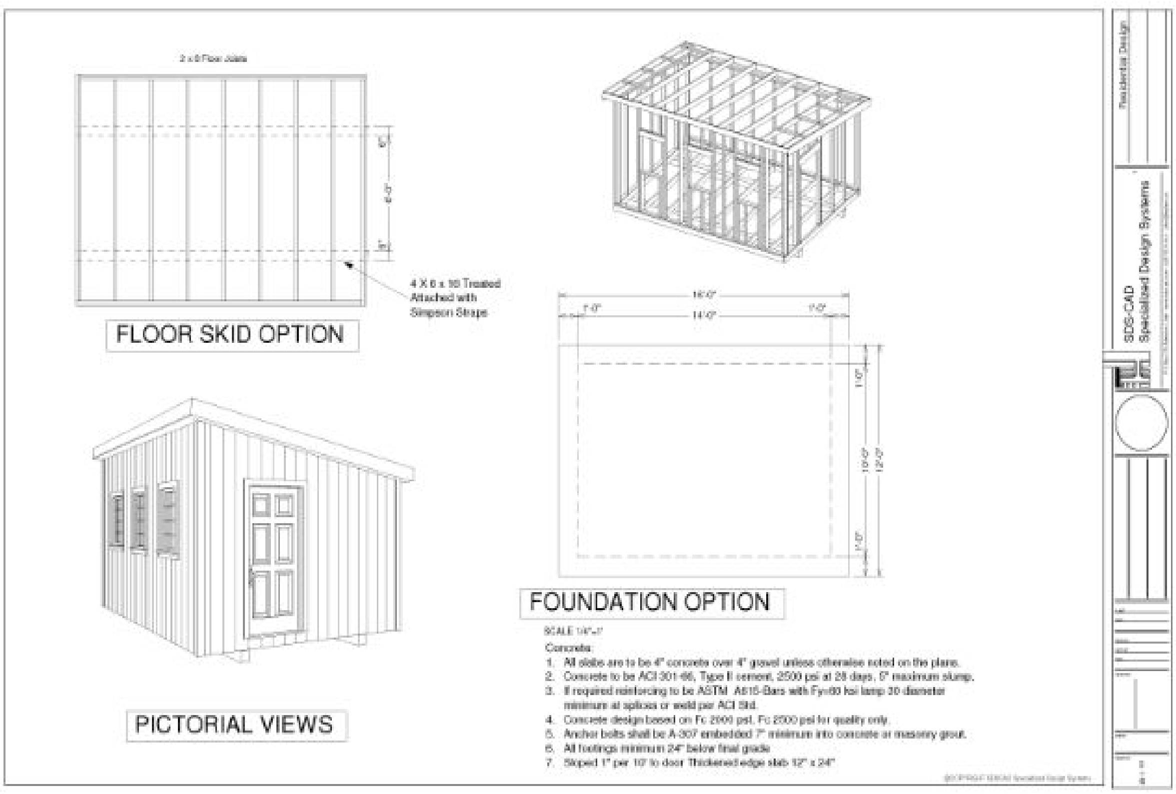


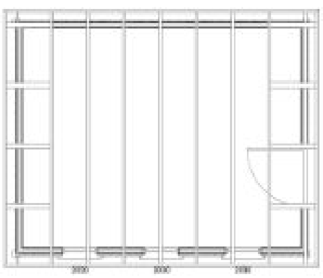
CONCRETE BACKFILL

12’ x 16’ Chicken Coop Plans Framed Version

Links to the higher resolution plans can be found later in the book.

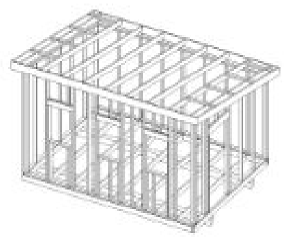

REAR ELEVATION
LEFT ELEVATION
6 /12 PITCH
RAFTER OR
TRUSS
ON 24"
CENTERS
ARCHITECTURAL
ASPHALT
SHINGLES
8' Tall 2 x 4 Walls
Finish to match
Cottage
Lap siding with
7" exposure
Trim with pine
boards
Paint to match
FRONT ELEVATION
SCALE 1/4"=1'
RIGHT ELEVATION
Residential Design
SDS-CAD
Specialized Design Systems


2 x 6 Floor Joists
6'-0"
4 X 6 x 10 Treated
Attached with
Simpson Straps
FLOOR SKID OPTION
16'-0"
1'-0"
14'-0"
1'-0"
10'-0"
12'-0"
1'-0"
PICTORIAL VIEWS
FOUNDATION OPTION
SCALE 1/4"=1'
Concrete:
1. All slabs are to be 4" concrete over 4" gravel unless otherwise noted on the plans.
2. Concrete to be ACI 301-66, Type II cement, 2500 psi at 28 days, 5" maximum slump.
3. If required reinforcing to be ASTM A615-Bars with Fy=60 ksi lamp 30 diameter minimum at splices or weld per ACI Std.
4. Concrete design based on Fc 2000 psi, Fc 2500 psi for quality only.
5. Anchor bolts shall be A-307 embedded 7" minimum into concrete or masonry grout.
6. All footings minimum 24" below final grade
7. Sloped 1" per 10' to door Thickened edge slab 12" x 24"
Residential Design
SDS-CAD
Specialized Design Systems



GARAGE ROOF TRUSSES OR RAFTER WITH
RIDGE BEAM 24" o.c.

7'-6" Tall 2 x 4 Walls
2 x 6 Floor Joists



General framing: (Douglas Fir)

1. Minimum header sizes shall be according to the following table unless otherwise noted. Header sizes (single story construction)
   2'-0" to 4'-0" Span 2-2x6's
   4' + to 6'-0" Span 2-2x8's
   6' + to 8'-0" Span 2-2x8's
   8' + to 10'-0" Span 2-2x10's
   10' + to 12'-0" Span 2-2x12's or as noted on plan
2. Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
   a. Simpson WB 126 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
   b. Plywood sheathing of a minimum thickness of 7/16 inch
3. Fire stopping
   a. Fireblock stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc. Firestopping shall consist of 2" nominal lumber.
   b. Firestop openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with approved noncombustible materials.
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5. Exterior wall framing to be 2"x4" studs at 16" o.c. Interior wall framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate.
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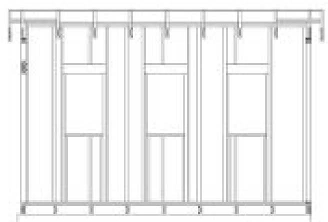
7. All stress grade lumber shall comply with WCLA specs and bear approval stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Fb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.



Roof Framing:

1. Fascia to be 2"x Douglas Fir
2. For soffit size see details.
3. For spans and dimensions refer to floor plans.
4. Trusses are to be an approved truss design from the truss manufacturer's engineer.
5. Use Simpson H-1 hurricane anchors at each truss or rafter to wall connection.
6. Solid blocking required between joists, rafters, and trusses over all bearing walls. Such blocking shall be 1 ½" minimum thickness and full depth of joists, rafters, or trusses.
7. Minimum header sizes shall be according to the header size table unless otherwise noted.
8. Basis of design roof live/snow load of 27 psf, and roof dead load of 15 psf.
9. Plywood roof decking to be Min ½" thick, 24/0, CDX or 5/8 wafer.

WALL FRAMING SECTIONS

SCALE 1/8"=1'

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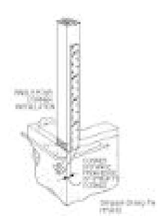
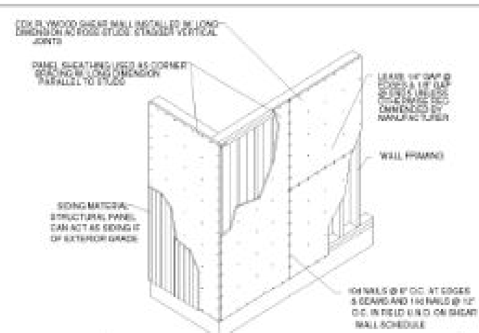


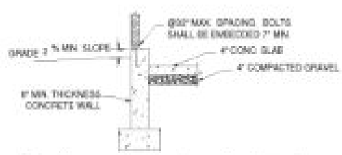
HPAHD straps for all (ABWP) Alternate Braced Wall Panels
See additional detail for all (BWP) Braced Wall Panels

TYPICAL ALTERNATE BRACED WALL PANEL (ABWP)

NOTE: TYPICAL DETAILS FOR CONSTRUCTION TO MEET BUILDING REQUIREMENTS. SHEDS TO BE BUILT AS PER LOCAL CODE REQUIREMENTS

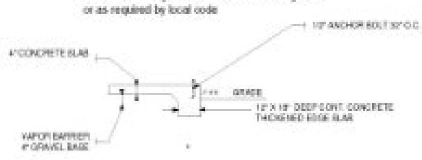


TYPICAL BRACED WALL PANEL (BWP)

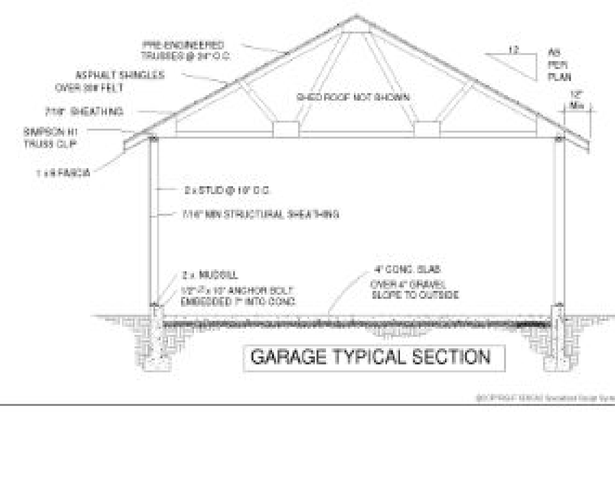


Footing and concrete wall option

Bottom of footing to be a min of 12" below grade or as required by local code



Monolithic slab foundation option



GARAGE TYPICAL SECTION

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DETAILS

General								
GN1		1	98 high wall	Siding-4	39	0	ft	
GN2		1	90 1/16 high wall	Siding-4	16	0	ft	
GN3		1		heated floor area	192.00	0.00	sq ft	
GN4		1		heated roof area	185.00	0.00	sq ft	
GN5		1		heated wall area	485.00	0.00	sq ft	
GN6		1		heated glass area	8.00	0.00	sq ft	
GN7		1		heated door area	20.30	0.00	sq ft	
GN8		2	16 3/4 high wall	Siding-4	16	0	ft	
GN9		2	8 3/8 high wall	Siding-4	8	0	ft	
GN10		2	8 5/16 high wall	Siding-4	8	0	ft	
								Subtotal
Subfloor								
SF1		1	4'x8'x3/4"	Sheet Plywood	8	0		
SF2		1	2x8"-16'	rim joists - lumber	4	0		
SF3		1	2x8"-12'	rim joists - lumber	4	0		
SF4		1	2x8"-12'	floor joists - lumber	7	0		
								Subtotal
Framing								
F1		1	2x4-18ft+	fir plate	171	0	ft	
F2		1	2x4-18ft+	fir stud stock	284	0	ft	
F3		1	2x4"-85 1/2"	fir stud	6	0		
F4		1	2x7-18ft+	header - lumber	7	0	ft	
F5		1	2x8-18ft+	header - lumber	14	0	ft	
F6		1	2x4"-100 5/16"	fir stud	13	0		
F7		2	2x4-17 1/4"	Framing Fir Stud 16" OC	15	0		
F8		2	2x4-18ft+	fir plate	66	0	ft	
F9		2	2x4-18ft+	fir stud stock	13	0	ft	
								Subtotal
Siding								
S1		1	8" wide	Siding Vertical Gray	631	0	ft	
S2		1	4'x8'x1/2"	Sheet Plywood-hz	15	0		
S3		1		house wrap	488.00	0.00	sq ft	
S4		2	8" wide	Siding Vertical Gray	63	0	ft	
S5		2	4'x8'x1/2"	Sheet Plywood-hz	1	0		
								Subtotal
Ext Trim								
EX1		1	1x5-36"	door threshold	1	0		
EX2		1	1x4-18ft+	ext. door casing - color: white	17	0	ft	
EX3		1	5 in	ext. door jamb - color: white	17	0	ft	
EX4		1	1x4-18ft+	exterior sill - color: white	8	0	ft	
EX5		1	1x4-18ft+	ext. window casing - color: white	27	0	ft	
EX6		1	1x4 in (2)	corner board - color: white	36	0	ft	
								Subtotal
Roofing								
R1		1	2x8"-18'	rafters - lumber	2	0		
R2		1	2x8"-14'	rafters - lumber	8	0		
R3		1	2x8"-14'	rafters - lumber	2	0		
R4		1	2x4"-18'+	rafters - lumber	25	0	ft	
R5		1		Roofing Dimensional Comp.	234.00	0.00	sq ft	
R6		1	4x8' sheets	roof sheathing	8	0		
R7		1	2x8"	gable fascia	27	0	ft	
R8		1	2x8"	eave fascia	35	0	ft	
R9		1		metal drip edge	62	0	ft	
								Subtotal
Insulation								
IN1		1	12x24x48" batts	floor insulation	24	0		
IN2		1	12x24x48" batts	roof insulation	24	0		
IN3		1	4x24x93" batts	wall insulation	23	0		
								Subtotal
Flooring								
FL1		1	2 1/4" wide	Flooring Oak-Golden	927	0	ft	
Wall Bd								
WB1		1	4'x8'x1/2"	Sheet Sheetrock	14	0		
WB2		2	4'x8'x1/2"	Sheet Sheetrock	1	0		
								Subtotal
Windows								
W1		1	24x36	fixed glass	3	0		
Doors								
D1		1		handle: Lever (decorative)	1	0		
D2		1		handle: Exterior Handle (ext.)	1	0		
D3		1		lock: Dead Bolt (interior)	1	0		
D4		1		lock: Dead Bolt (exterior)	1	0		
D5		1		hinge: Hidden	3	0		
D6		1	36x80x1 3/4R	ext. 6-Panel - color: white	1	0		
								Subtotal
Int Trim								
T1		1	1x4-18ft+	interior casing	45	0	ft	
T2		1	1x5-18ft+	window apron	4	0	ft	
T3		1	1x4-18ft+	sill	8	0	ft	
T4		1	1x8-18ft+	base molding	53	0	ft	
								Subtotal
								Total

Computer generated materials list from the computer model
a great place to start with your material requirements.

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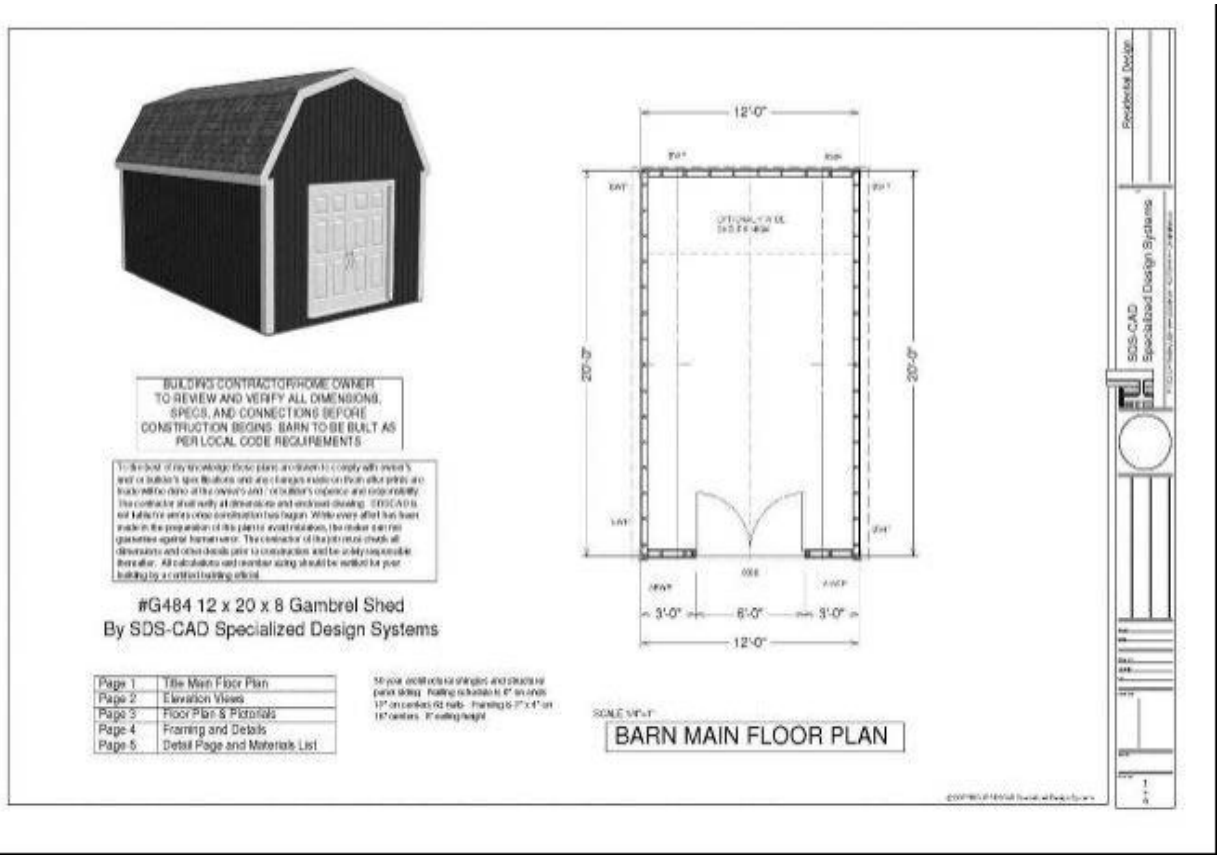
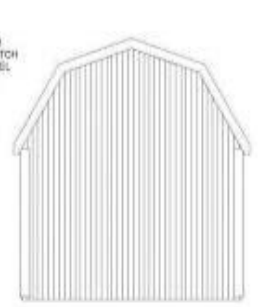
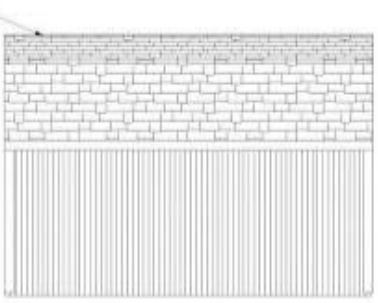
Plans 12 x 20 Gambrel Shed Plans

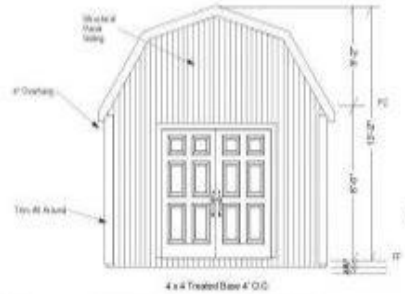




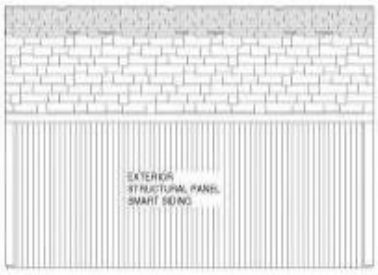
REAR ELEVATION



LEFT ELEVATION



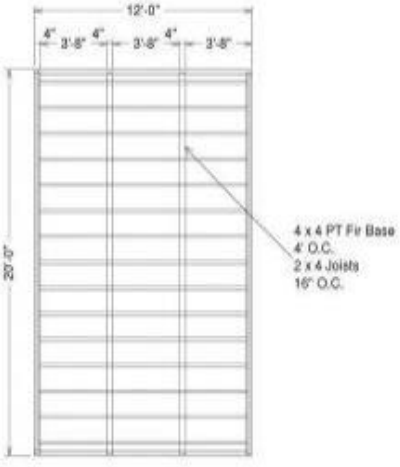
FRONT ELEVATION



RIGHT ELEVATION

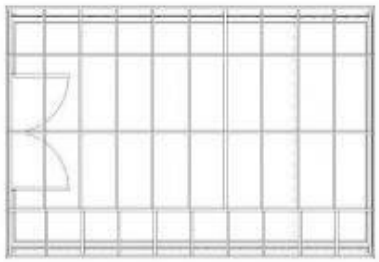
SCALE
1/4"=1'

PICTORIAL VIEW



FLOOR AND BASE PLAN

SCALE 1/4"=1'



General framing: (Douglas Fir)

1. Minimum header sizes shall be according to the following table unless otherwise noted. Header sizes (single story construction)
   2'-0" to 4'-0" Span 2-2x6's
   4' + to 6'-0" Span 2-2x8's
   6' + to 8'-0" Span 2-2x10's
   8' + to 10'-0" Span 2-2x12's
   10' + to 12'-0" Span 2-2x12's or as noted on plan
2. Brace all exterior walls and cross-stud partitions at each end of building and at least every 25' of length by one of the following:
   a. Simpson WB 128 wall bracing with 3-16d nails at each end and 1-8d nails at each stud.
   b. Plywood sheathing of a minimum thickness of 7/16 inch.
3. a. Firestop stud spaces over 10' in height, furred spaces, soffits, drop ceilings, cove ceilings, stair stringers at top and bottom of run, bearing walls and ceiling joist lines, etc.
   Firestopping shall consist of 2" nominal lumber.
   b. Firestop openings around vents, pipes, ducts, chimneys and fireplaces at ceiling and floor levels with approved noncombustible materials.
4. CDX plywood is not approved where exposed to weather, i.e., roof overhangs.
5. Exterior wall framing to be 2"x6" studs at 16" o.c. Interior wall, framing at non-bearing walls to be 2"x4" studs at 24" o.c. and at bearing walls 2"x4" studs at 16" o.c. with double top plate.
6. Shear wall to be 7/16" Sheathing, see detail.
7. All lumber grade marked shall comply with WCLA specs and bear approval stamp on all pieces in place.
8. Framing lumber shall be Douglas Fir construction grade Pb 1450 or better unless otherwise noted.
9. Nailing to be per current U.B.C. unless otherwise noted.
10. All bearing partitions shall have double top plates.
11. Structural glued laminated timbers to be stamped by an approved agency.
12. Use redwood or pressure treated sole plates at all exterior walls.

Roof Framing:

1. Fascia to be 2"x Douglas Fir.
2. For soffit size see details.
3. For spans and dimensions, refer to floor plans.
4. Use Simpson H-1 hurricane anchors at each truss or rafter to wall connection.
5. Solid blocking required between joists, rafters, and trusses over all bearing walls. Such blocking shall be 1 ½" minimum thickness and full depth of joists, rafters, or trusses.
6. Minimum header sizes shall be according to the header size table unless otherwise noted.
7. Basis of design roof live/snow load of 40 psf, and roof dead load of 15 psf.
8. Plywood roof decking to be Min ½" thick, 24/0, CDX or 5/6 rated.
9. 4/12 Pitch Engineered Attic Scissor Trusses

WALL FRAMING SECTIONS

SCALE: 1/4"=1'

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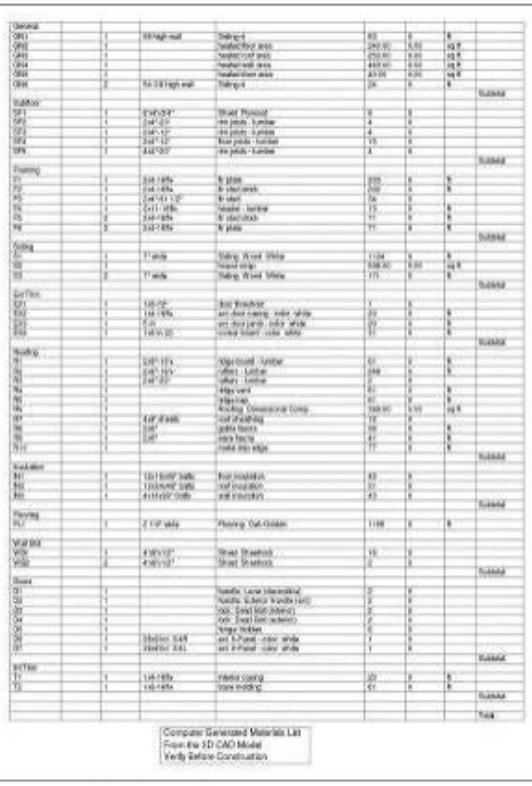
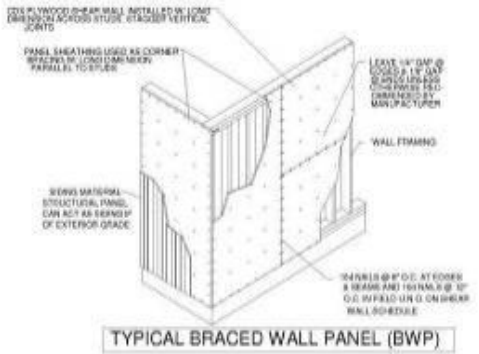
4



Computer Generated Materials List
From the 3D CAD Model
Verify Before Construction



TYPICAL BRACED WALL PANEL (BWP)

NOTE: TYPICAL DETAILS FOR CONSTRUCTION TO MEET BUILDING REQUIREMENTS. BARN TO BE BUILT AS PER LOCAL CODE REQUIREMENTS

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DETAILS

Portable Chicken Coop Plans

DISCLAIMER:

These drawings are intended for use as a GUIDE ONLY!

Basic construction methods still apply! I.E. "Measure twice, cut once". Measure all dimensions, ensure edges are flush and uprights and supports are level as can be.

ALWAYS wear any safety equipment and follow proper safety methods to prevent injury! Working at heights CAN result in severe injury, including falls from small heights!

Feel free to use your own methodology! The methods in this plan set do not necessarily reflect your personal knowledge or skill level! You may opt to construct the structure shown using your own tools and methods!

We WILL NOT accept liability for any reason, build assumes ALL RISKS ASSOCIATED WITH CONSTRUCTION! Work safely, wear proper protection (including ear and eye protection) and if you feel at all uncomfortable with any aspect of construction, contact a professional!

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MATERIALS		
Description	Dimensions	Quantity
2x4 plank	2x4x8'	20
2x4 pressure treated plank	2x4x10'	2
Plywood Sheathing	4x8'x$\frac{1}{2}$" min.	4
2x2 post	2x2x8'	8
2x4 pressure treated plank	2x4x12'	2
Miscellaneous (By Builder)		
Angle Brackets		12
90° Metal Ties		4
Roofing		
Epoxy (or equal) sealant		
Window		
Chicken wire		
Fasteners		
Paint, siding, veneer, etc.		

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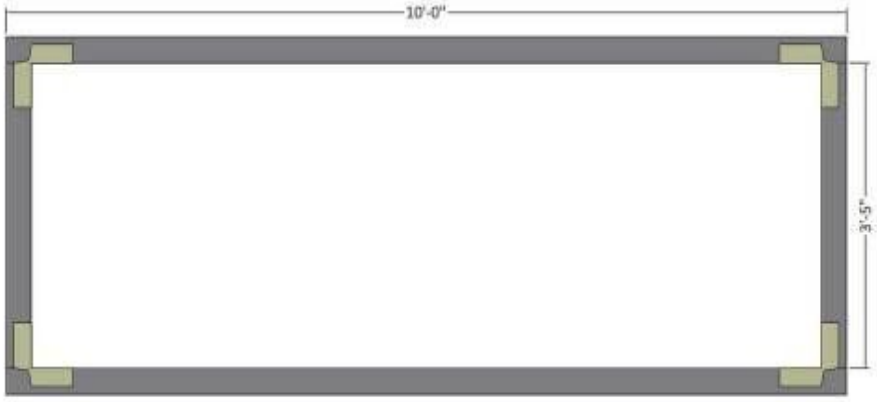
To begin, start by cutting and laying out the 2x4 pressure treated planks as shown in the diagram below.We show the fasteners as 90° Simpson fasteners



Notes:

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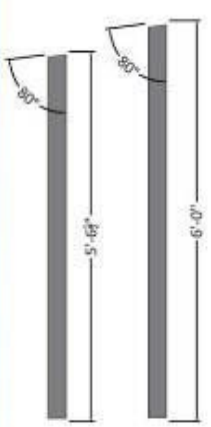
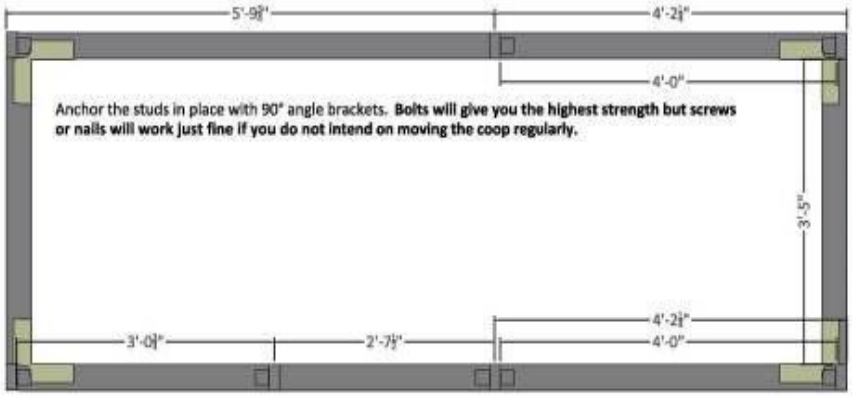
Once you have the base plate constructed, you will need to cut your studs as shown in the diagram below. Layout and place the studs as shown. You will need 4 of the taller studs and 3 of the shorter studs.





Anchor the studs in place with 90° angle brackets. **Bolts will give you the highest strength but screws or nails will work just fine if you do not intend on moving the coop regularly.**

Notes:

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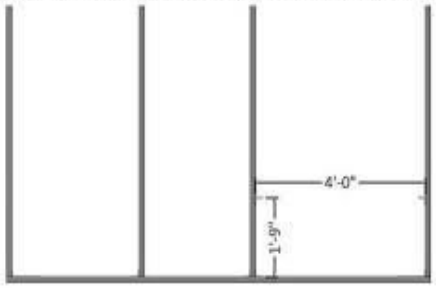
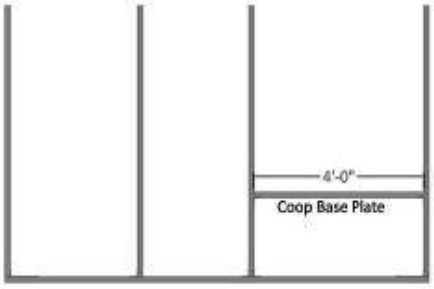
For the floor planks, use angle brackets as placed in the diagrams below. Place your coop base planks on and bolt or screw into place.





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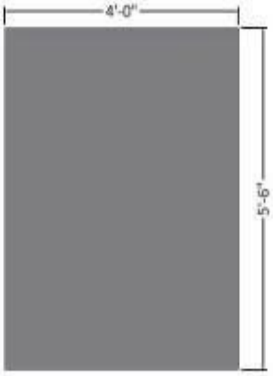
Use a 4x6'x¾" plywood sheet for the floor. We recommend using oak or cedar plywood because of their water-resistance properties.



Notes:

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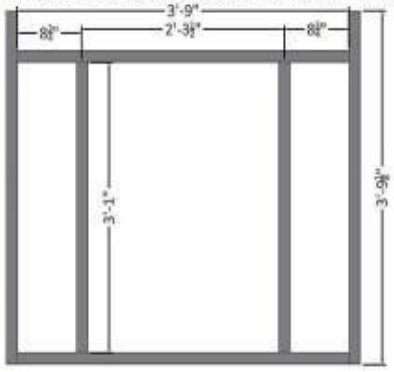
Now you can start construction of the front wall frame. You will need to put an access in so you can get in and clean out the coop once in awhile.



Inset the framing the thickness of your wall sheathing. If you use ½", inset the frame ½".

Notes:

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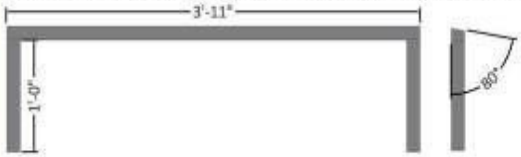
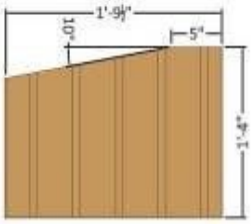
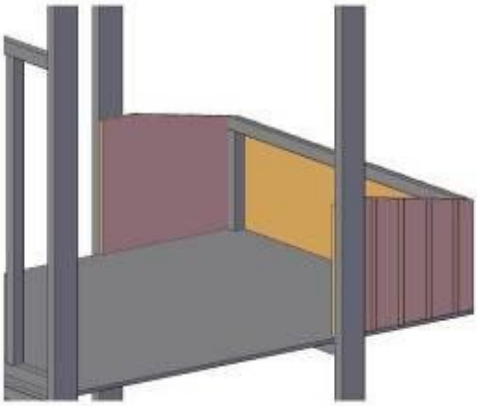
Follow the diagrams below to construct the nesting box framing. Miter the 2x2 nesting box top plate as shown.





Cut the nesting box side sheathing as shown at left. The sheathing will attach to the inside of the coop uprights and on the outside do the nesting box rear frame. See the diagrams.



Notes:

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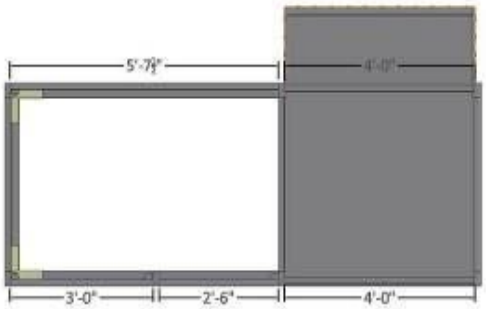
Measure and install the top plates around the frame. Ensure the studs are vertical with a level. Don't forget! Inset the COOP top plates the thickness of your sheathing material! Layout your cuts BEFORE making them! Always re-measure for accuracy!



Notes:

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Now for the sheathing...Remember, cut your sheathing so it is inset between the uprights. Follow the diagram below. Keep the center piece of the main access for the door frame.

Notes:

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Now, before you sheath the last wall, you will want to do some quick framing. Start with a nailer at the bottom. The nailer should cross the open span from the nesting box walls, NOT the side walls.

Then you need to frame for the sheathing. The framing will be slightly offset from the base plank. You will use the base plank to attach hinges for the nesting box access so you want the plank offset to give you a nailing surface.

Enclose the coop. Make sure the sheathing is inset between the uprights.

Notes:

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OK, now you need to start on the run. Frame in beneath the coop by making smaller frames that will fit beneath the coop. They are relatively simple compared to what you have already completed. Follow the diagrams below, measure carefully and you shouldn't have any problems.

Notes:

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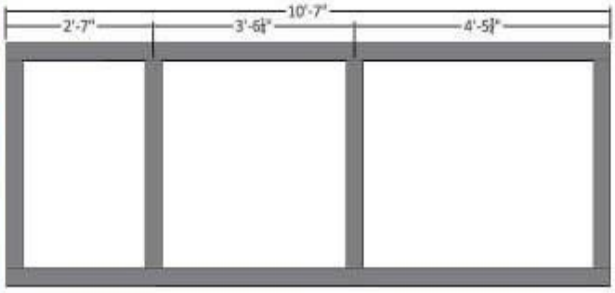
You will want to construct a top plate to tie the top of the coop together. Measure the cross braces before installing in place.



Notes:

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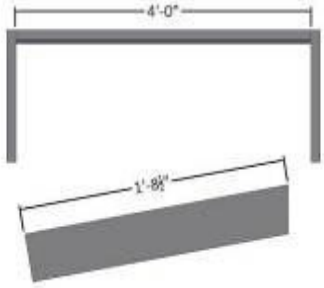
Frame around the roof of the nesting box and attach some plywood as insulation. Always re-measure lengths before cutting! Ensure the frame will swing properly when in place.



Notes:

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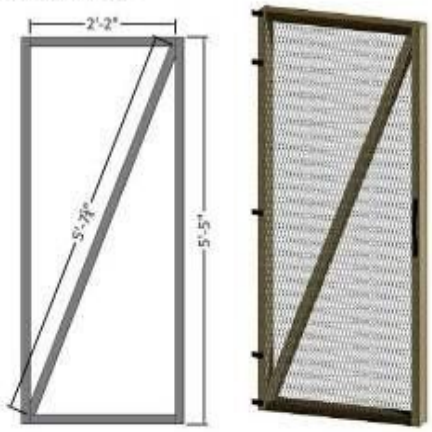
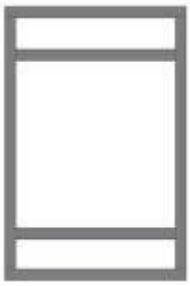
Frame in the coop access and apply chicken wire around the coop. Layout the door frame and cut carefully. Mark the cross brace while in place to ensure the cuts are correct.



Frame in the coop door as shown below. The actual dimensions may vary depending upon wether you desire a window and/or window size.



Notes:

SDS-CAD
Specialized Design Systems

12’ x 20’ x 8’ Gambrel Chicken Coop Shed

Videos on how to build this portable chicken coop

Video 1 How to build the portable chicken coop
http://www.screencast.com/t/B82PphpuOu2X
Video 2 How to build the portable chicken coop
http://www.screencast.com/t/bscO8lJ0M
Video 3 How to build the portable chicken coop
http://www.screencast.com/t/cEyovgMB5i

Links to Download PDF Version of High Resolution Plans For Printing

Pole Barn 12 x 16 Coop High Resolution Plans

http://www.sdsplans.com/wp-content/uploads/2013/02/G482-12-X-16-X-8-pole-shed-plan.pdf

Framed 12 x 16 Coop High Resolution Plans

http://www.sdsplans.com/wp-content/uploads/2013/02/G481-12-X-16-X-8-shed-plan.pdf

10 x 14 Chicken Coop Garden Shed Playhouse

12 X 12 Coop High Resolution Plans

Bonus Plans g484 12' x 20' Gambrel Barn - Shed 12 x 20 x 10 http://www.sdsplans.com/wp-content/uploads/2013/02/G484-12-x-20-x-8-Gambrel.pdf

Playhouse Shed plans
WatchVideo

Portable Chicken Coop High Resolution Plans
http://build-chicken-coop.com/pdf/mobilecoop.pdf

Portable chicken coop

Portable chicken coop 2

How to Print Plans

Step 1

Download or Email the plans to yourself or send them to a Google drive or Dropbox if you have one available.

You may also want to email the plans to a local print store that has the ability to print the plans at 100% scale on 11 x 17 paper.

Step 2

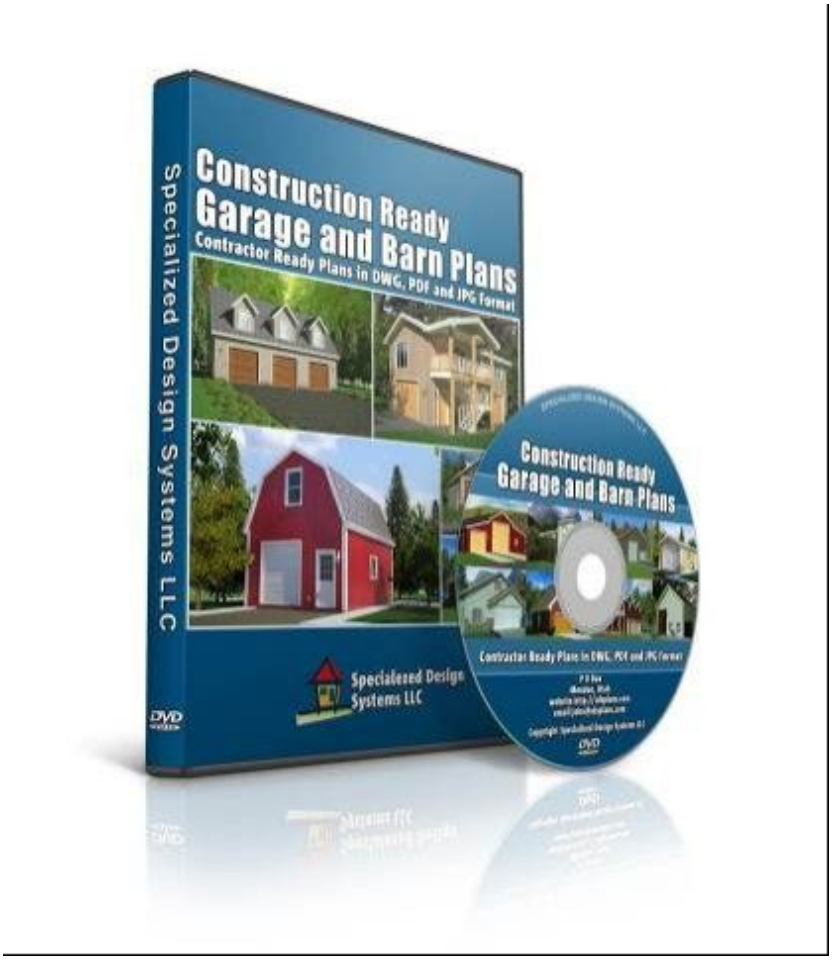
Open the plan file in your email.

Step 3

Send the plans to the printer. If you print the plans to fit on a 8 1/2 x 11 paper printer they will be readable but not to scale.

If you have an 11 x 17 printer you can print the plans to scale at 100%. If not email them to a print store that has those capabilities, if you need full scale plans for building.

Purchase Plans On DVD



Over 100 Garage and Barn Plans in PDF JPG and DWG DVD

Garage and Barn Plans in PDF- JPG and many in DWG Complete construction drawings ready to build any of the plans. A Large Selection of plans -10 shed plans -20 garages with apartments -76 garage and barn plans -6 bonus spec house plans https://www.trepstar.com/purchase.asp?idpub=33670&mode=all

Or available on Amazon

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Plan Copyright Information

Copyright

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http://www.copyright.gov/circs/circ41.pdf

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2. You may use them directly with clients that you are working with in your local business.
3. You may modify the plans that you have purchased to meet your local needs.
4. You may charge your clients a service fee for using the plans in your business only if you are building the structure for them or working at making changes to the plans for them.
5. You may sell your original CD or DVD at fair market value as long as no physical or digital copy of the plans are kept by you.

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4. **You can not** copy the DVDs or CDs and sell them online or offline.
5. **You can not** break up the plans or plan packages and sell them online as individual products.

Thank you

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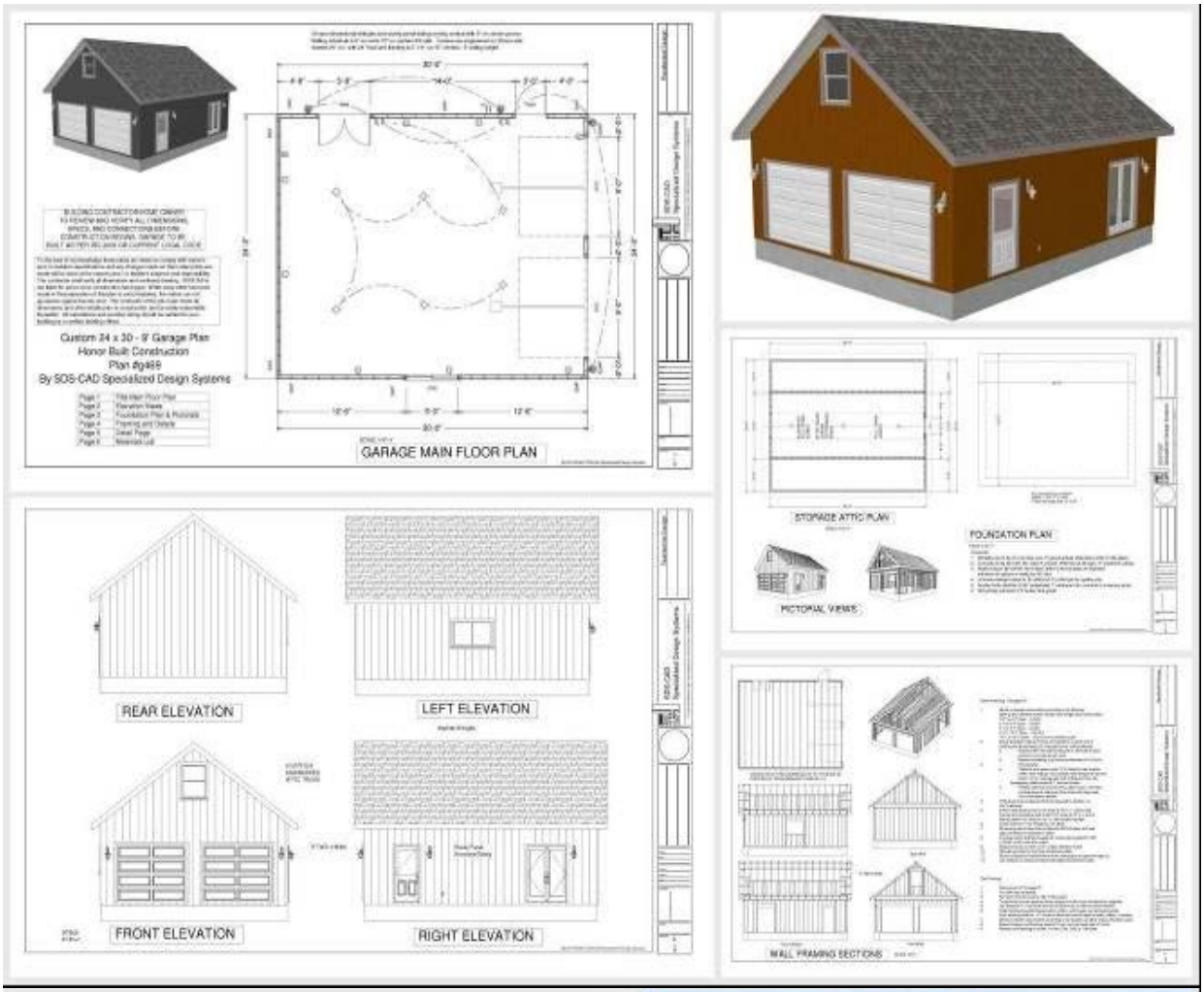
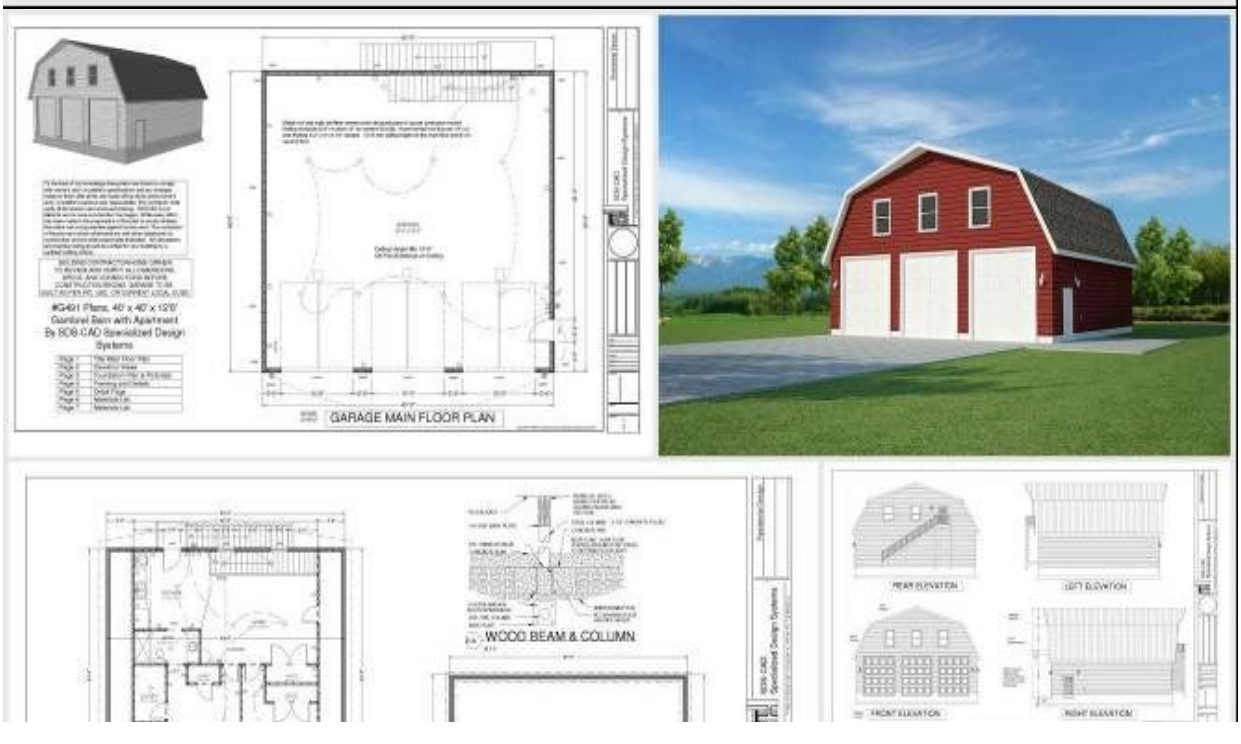
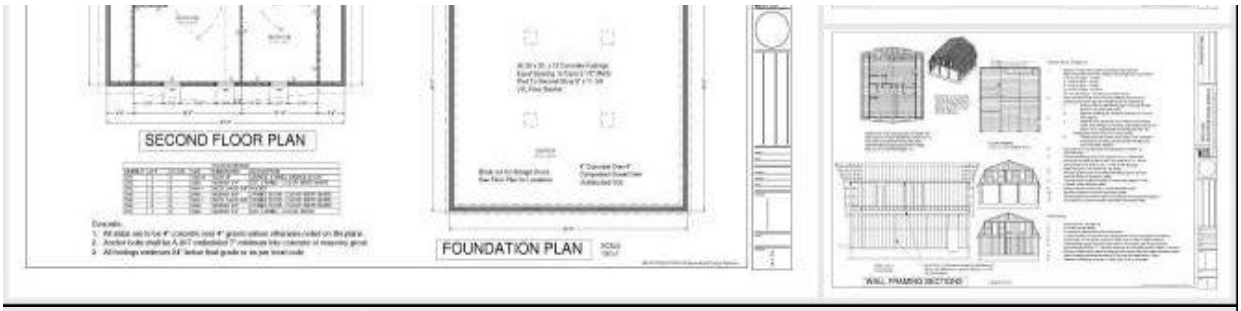
If you would like to make money by selling our plans online please contact us and become part of our reseller program john@hplans.us

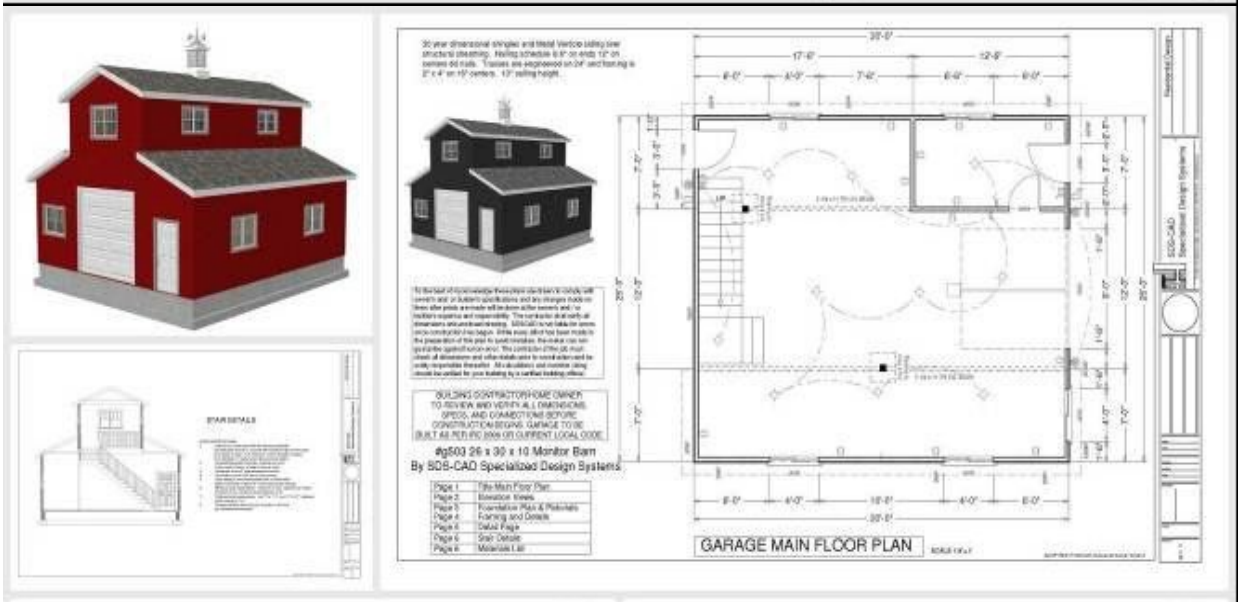
Check out some of our other Kindle eBooks

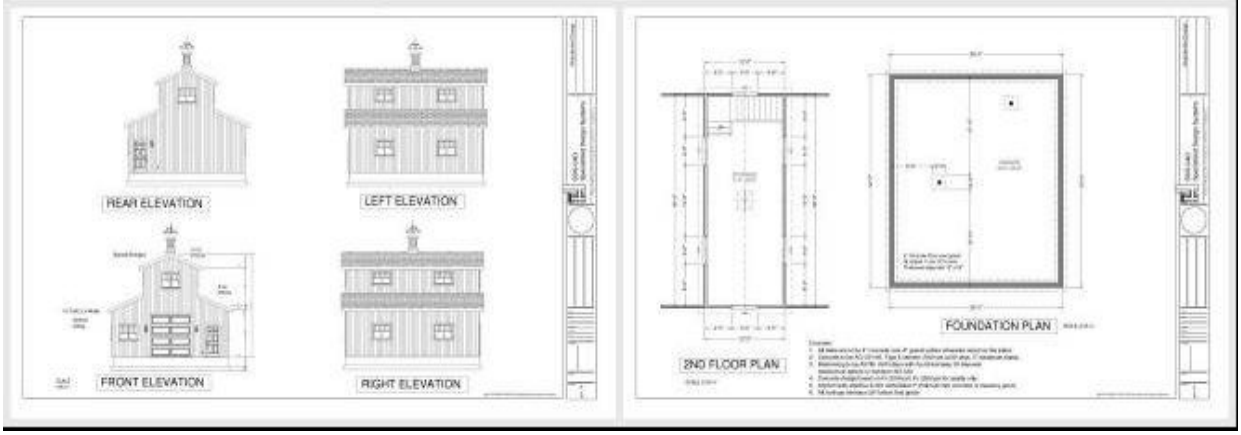
http://www.amazon.com/John-Davidson/e/B00BJPC1UC/ref=ntt_athr_dp_pel_1

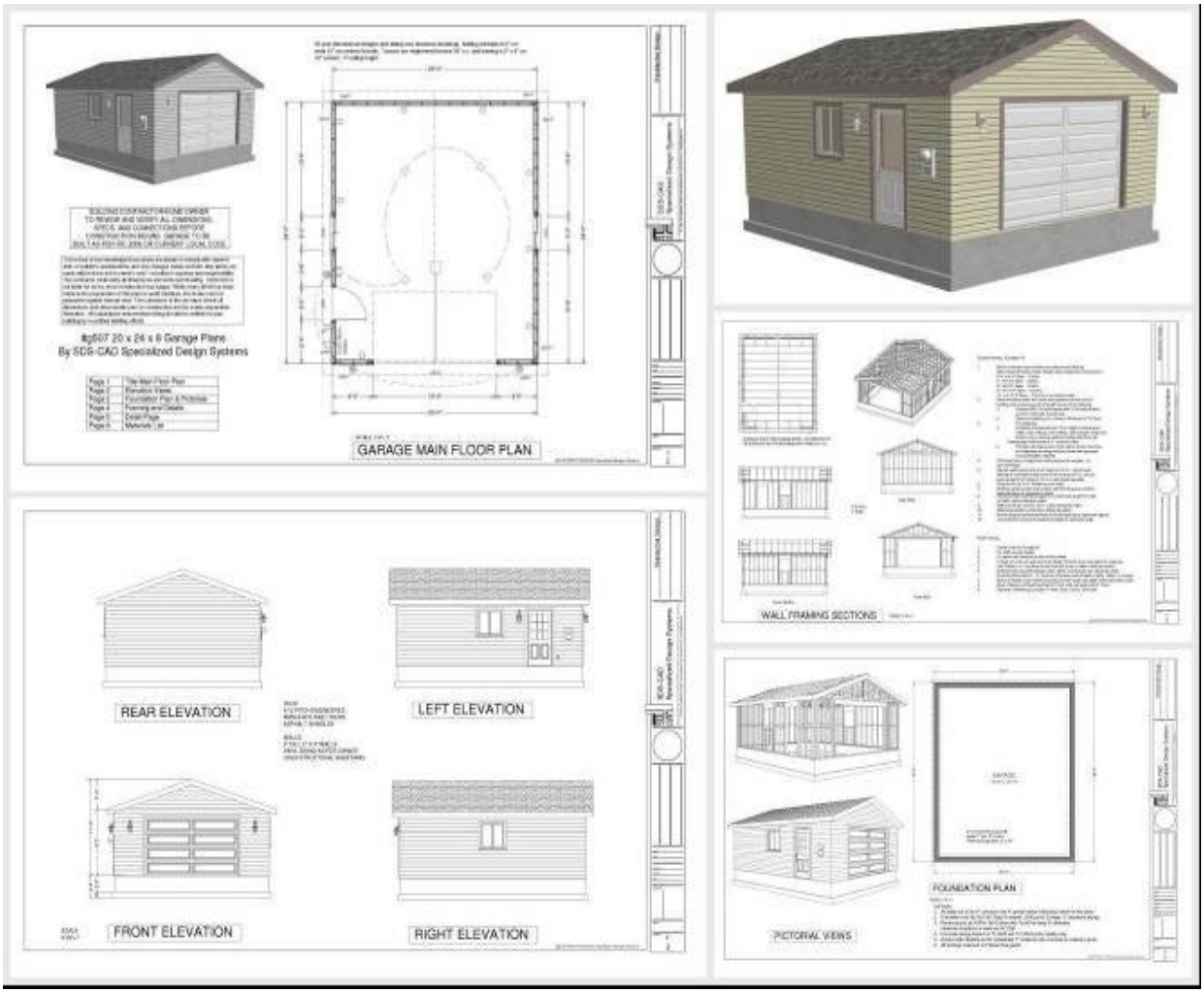

Custom 24 x 30 - 9' Garage Plan
Honor Built Construction
Plan #g488
By SDS-CAD Specialized Design Systems
GARAGE MAIN FLOOR PLAN
REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION
STORAGE ATTIC PLAN
FOUNDATION PLAN
PICTORIAL VIEWS
WALL FRAMING SECTIONS

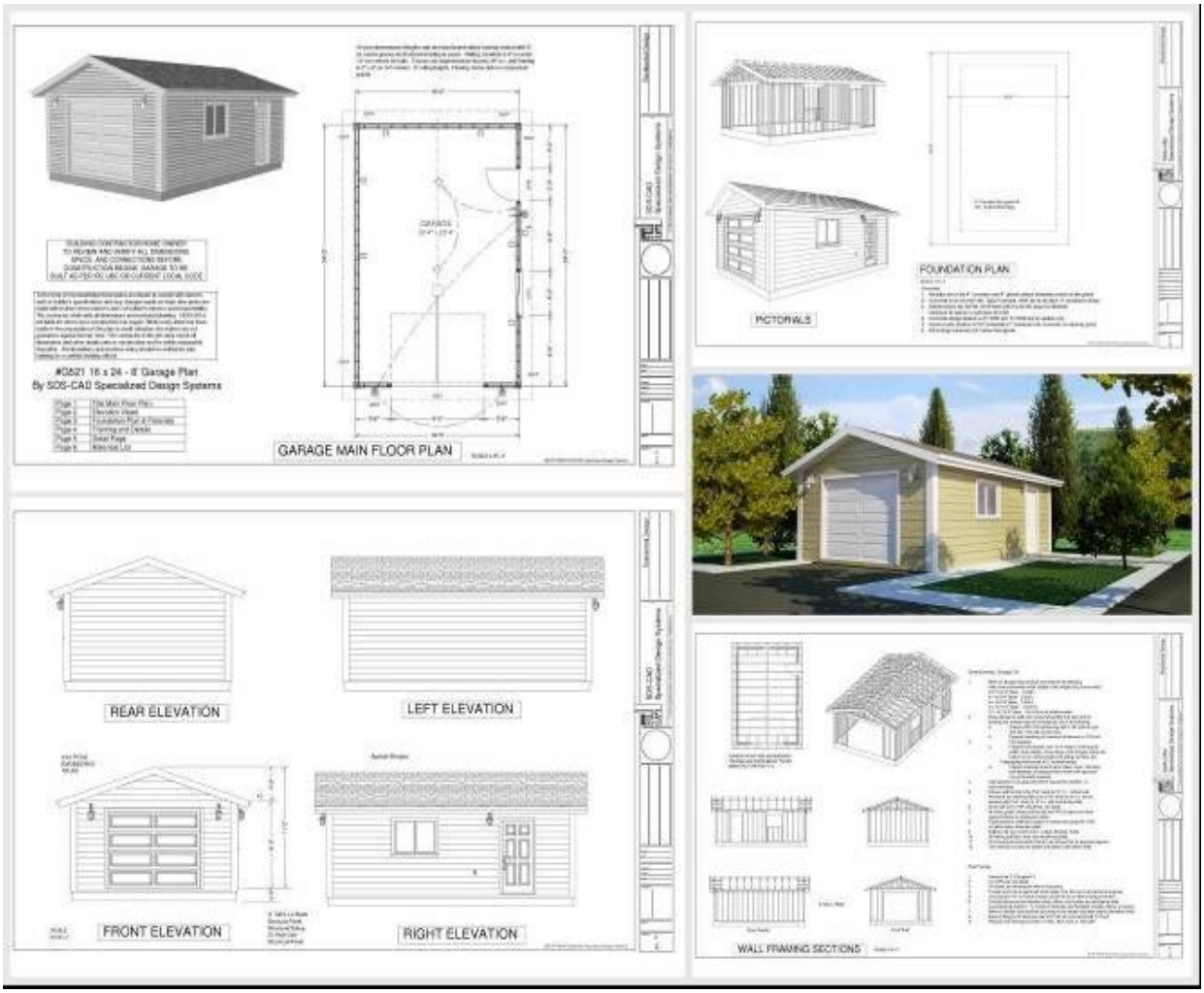

#G491 Plans, 40' x 40' x 12'6"
Gambrel Barn with Apartment
By SDS-CAD Specialized Design Systems
GARAGE MAIN FLOOR PLAN
WOOD BEAM & COLUMN
REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION

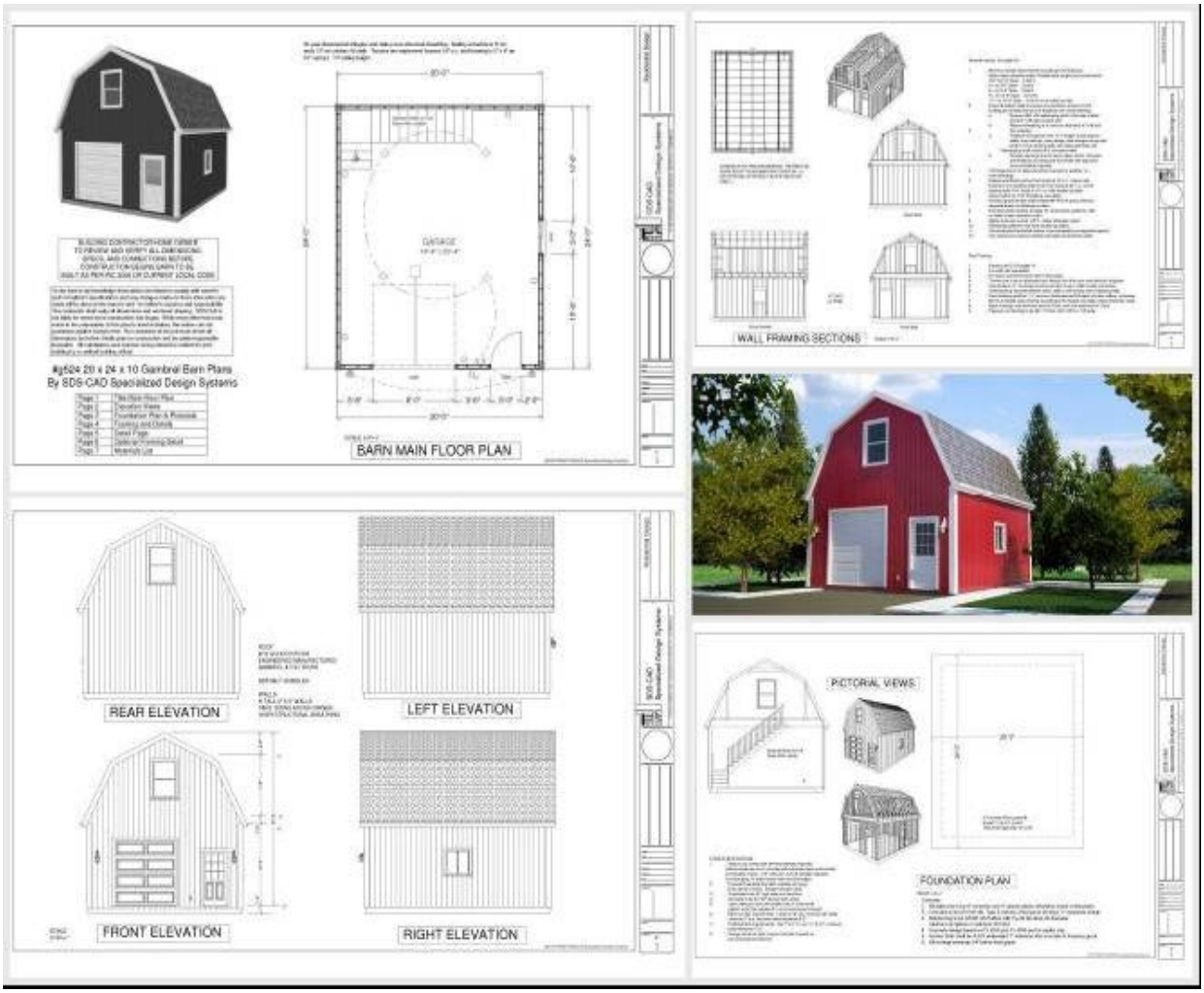

SECOND FLOOR PLAN
FOUNDATION PLAN
WALL FRAMING SECTIONS


#g503 26 x 30 x 10 Monitor Barn
By SDS-CAD Specialized Design Systems
GARAGE MAIN FLOOR PLAN

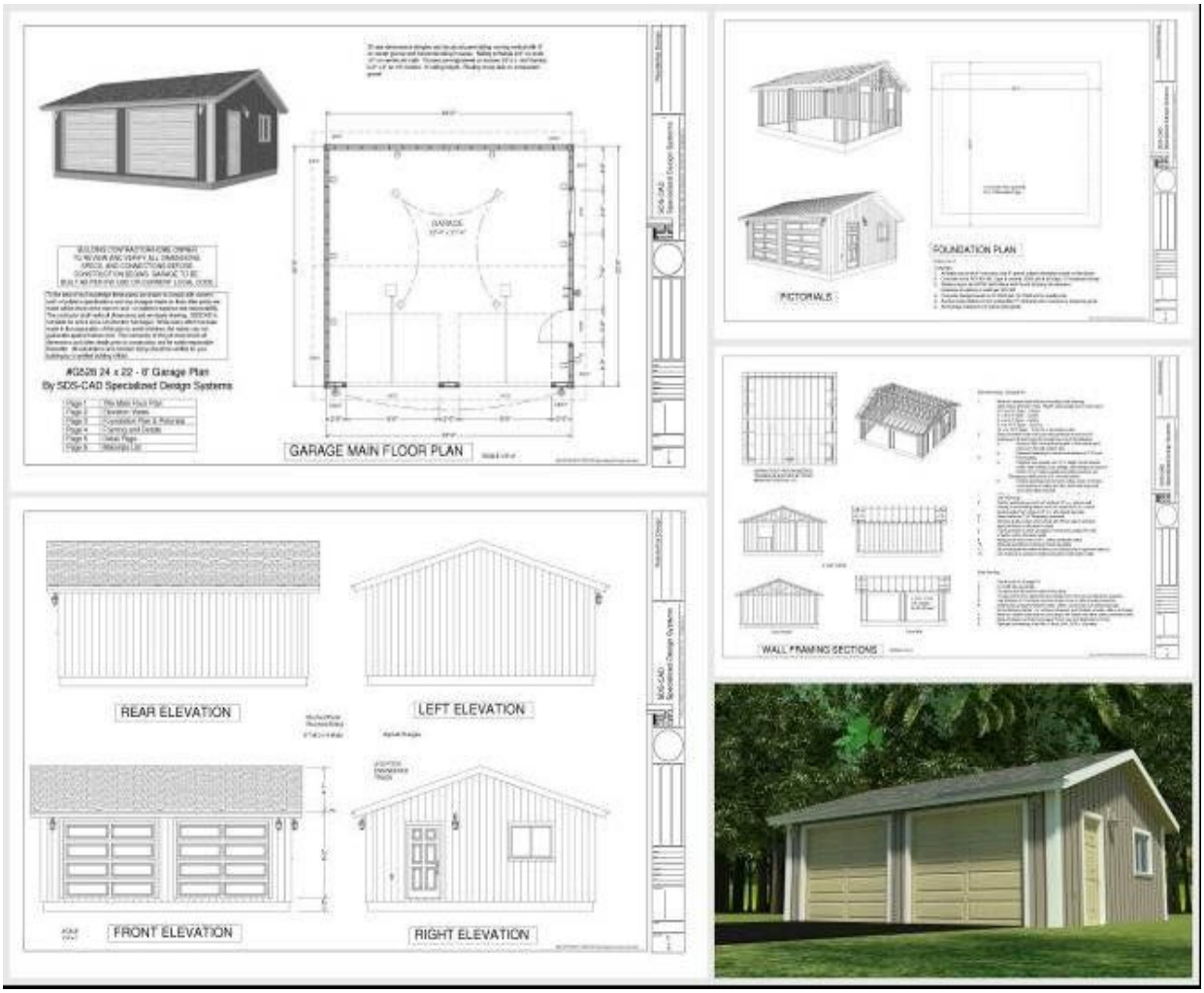

REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION
2ND FLOOR PLAN
FOUNDATION PLAN

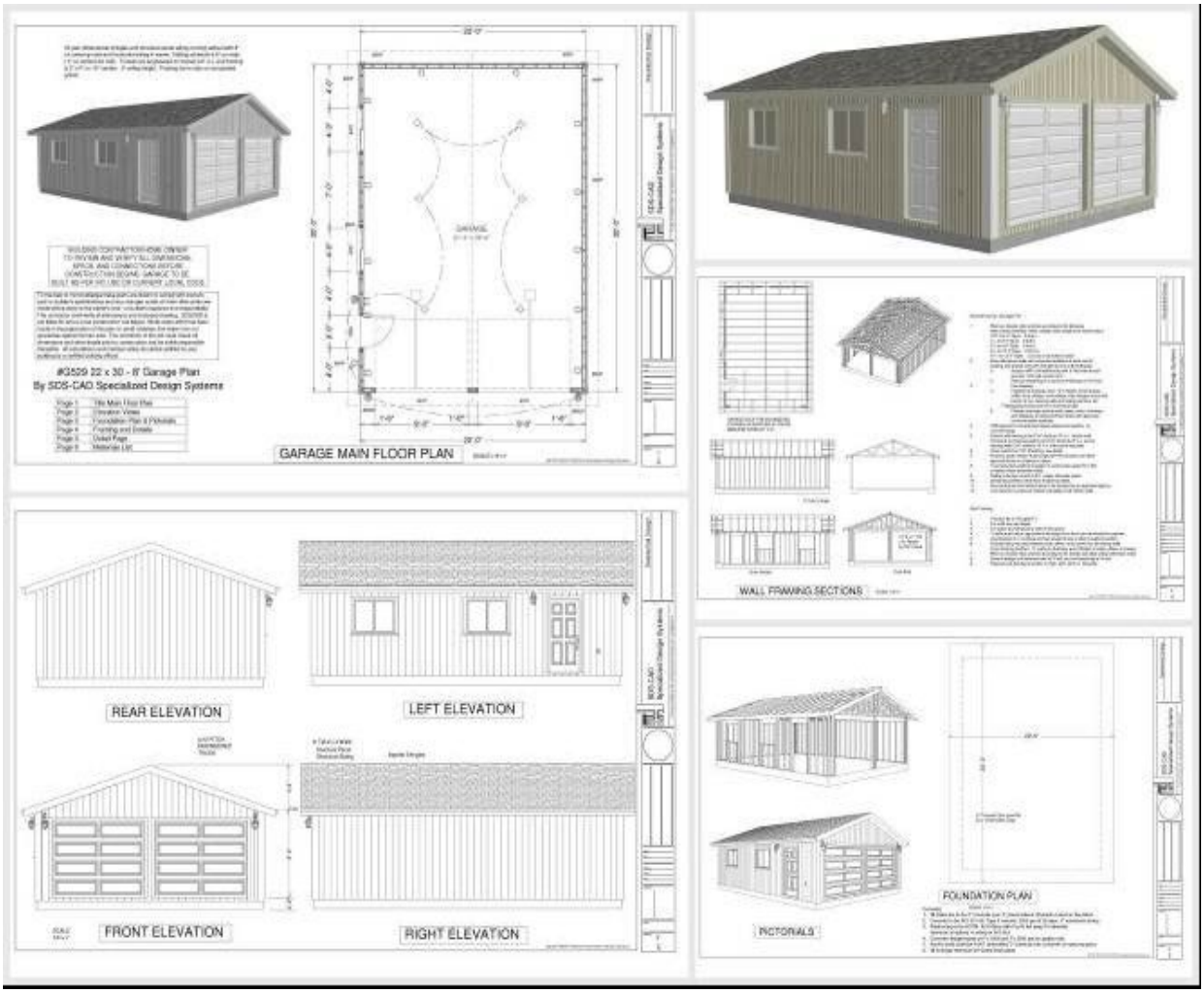

#g607 20 x 24 x 8 Garage Plans
By SDS-CAD Specialized Design Systems
GARAGE MAIN FLOOR PLAN
REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION
WALL FRAMING SECTIONS
FOUNDATION PLAN
PICTORIAL VIEWS

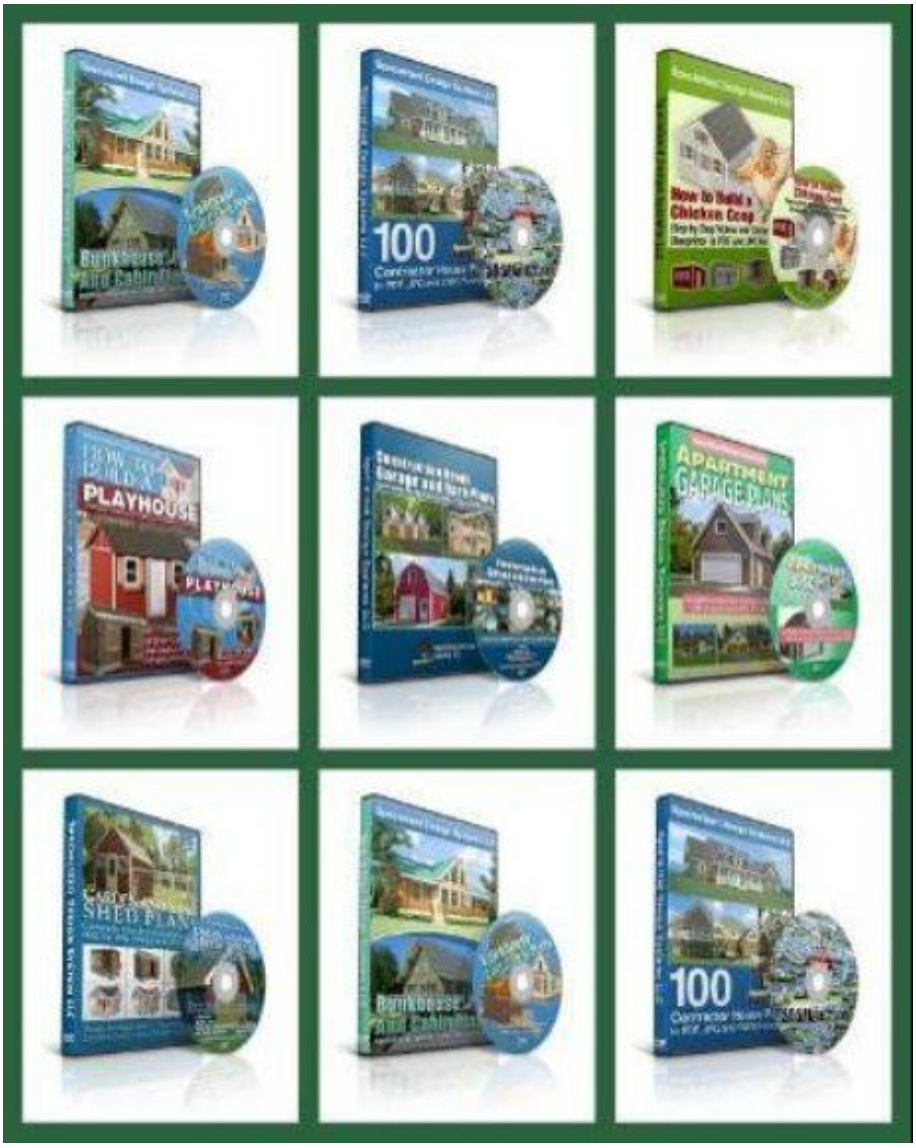

GARAGE MAIN FLOOR PLAN
#0621 16 x 24 - 8' Garage Plan
By SDS-CAD Specialized Design Systems
FOUNDATION PLAN
PICTORIALS
REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION
WALL FRAMING SECTIONS


#g524 20 x 24 x 10 Gambrel Barn Plans
By SDS-CAD Specialized Design Systems
BARN MAIN FLOOR PLAN
WALL FRAMING SECTIONS
REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION
PICTORIAL VIEWS
FOUNDATION PLAN


#SG27 24 x 24 - 8' Garage Plan with Loft and Dormers
By SDS-CAD Specialized Design Systems
GARAGE MAIN FLOOR PLAN
WALL FRAMING SECTIONS
REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION
ATTIC STORAGE PLAN
FOUNDATION PLAN


#G528 24 x 22 - 8' Garage Plan
By SDS-CAD Specialized Design Systems
GARAGE MAIN FLOOR PLAN
FOUNDATION PLAN
PICTORIALS
WALL FRAMING SECTIONS
REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION


#G529 22 x 30 - 8' Garage Plan
By SDS-CAD Specialized Design Systems
GARAGE MAIN FLOOR PLAN
WALL FRAMING SECTIONS
REAR ELEVATION
LEFT ELEVATION
FRONT ELEVATION
RIGHT ELEVATION
PICTORIALS
FOUNDATION PLAN



Plans on DVD can be purchased at the following link

https://www.trepstar.com/purchase.asp?idpub=33670&mode=all